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Math reading list 2015, a survey of the literature

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December 19, 2015

Contents

I December 2015 Reading List **11**

1 AEROSPACE **11**
1.1 Aerospace, books and longer works 11

2 ANALYSIS **13**
2.1 Algebras 13
2.2 Axiom 15
2.3 Induction 18
2.4 Analysis selected topics 24
2.5 Analysis various 28
2.6 Analysis, books and longer works 31

3 APPLIED ANALYSIS **34**
3.1 Applied Analysis, books and longer works 39

4 APPROXIMATIONS, NUMERICAL METHODS **41**
4.1 Approximations, Numerical Methods, books and longer works 44

5 BIOLOGY **46**

6 CHEMISTRY **47**
6.1 Chemistry, books and longer works 47
6.2 Spectroscopy, books and longer works 47

7 COMPUTER and COMPUTING **49**
7.1 Applications, books and longer works 49
7.2 Computing, books and longer works 49
7.3 Data and Search 52
7.4 Data and Search, books and longer works 53
7.5 Expert System and Machine Learning 53

7.6 Expert System and Machine Learning, books and longer works 53
7.7 Image processing 55
7.8 Image processing, books and longer works 55
7.9 Remote Sensing and Compressed Sensing, books and longer works 56
7.10 Signals 57
7.11 Signals, books and longer works 58

8 DIMENSION, INFINITE, INFINITE DIMENSION 64
8.1 Dimension 64
8.2 Infinite 70
8.3 Infinite Dimension 72

9 ELECTRICAL 77
9.1 Electrical 77
9.2 Electrical, books and longer works 77
9.3 Energy 82
9.4 Energy, books and longer works 84
9.5 Laser 86
9.6 Lasers, books and longer works 86
9.7 Light Emitting Diodes 91
9.8 Piezoelectricity and Energy Harvesting 124
9.9 Robots, books and longer works 161
9.10 Solar Energy and Photovoltaics 164
9.11 Supercapacitors 194

10 ENGINEERING, MATERIALS, MECHANICS 226
10.1 Automobile, books and longer works 226
10.2 Construction 227
10.3 Construction, books and longer works 227
10.4 Materials 228
10.5 Materials, books and longer works 230
10.6 Mechanics 233
10.7 Mechanics, books and longer works 234

11 FINANCIAL 238
11.1 Financial, books and longer works 238

12 FLOWS, FLUID, WATER, WAVES 240
12.1 Flows 240
12.2 Flows, books and longer works 241
12.3 Fluid 241
12.4 Fluid, books and longer works 242
12.5 Water 242
12.6 Water, books and longer works 243
12.7 Waves 243

12.8 Waves, books and longer works 244

13 FRACTIONAL DIMENSION, INTEGRODIFFERENTIATION OF ARBITRARY ORDER 245
13.1 Fractional Dimension, books and longer works 247

14 GEOPHYSICAL SCIENCE, CLIMATE MODELING 248
14.1 Geophysical Science, Climate Modeling, books and longer works 249

15 GAME THEORY 253

16 GRAPH THEORY and DISCRETE MATH 267
16.1 Graph Theory, books and longer works 277

17 HISTORY OF SCIENCE, HISTORY OF MATH 278
17.1 History of Science, History of Math, books and longer works 278

18 INDUSTRIAL and APPLIED MATHEMATICS 280
18.1 Control 280
18.2 Industrial Organization, books and longer works 281
18.3 Operations 281
18.4 Optimization 283
18.5 Supply Chain 283
18.6 Transportation 284
18.7 Transportation, books and longer works 284

19 LINEAR ALGEBRA, MATRICES 286

20 LOGIC 303
20.1 Logic, books and longer works 303

21 MEDICAL 305
21.1 Cancer 305
21.2 Cancer, books and longer works 305
21.3 Medical, books and longer works 308
21.4 Neuro, books and longer works 316

22 NANO 319
22.1 Nano 319
22.2 Nano, books and longer works 319

23 PHYSICS 322
23.1 Astrophysics, books and longer works 322
23.2 Optics, books and longer works 323
23.3 Physics 325
23.4 Physics, books and longer works 327
23.5 Quantum 335

23.6 Quantum, books and longer works . . . 338
23.7 Spacetime . . . 342

24 PROBABILITY, RANDOM, STATISTICS, STOCHASTIC 357
24.1 Bayes . . . 357
24.2 Random . . . 357
24.3 Risk . . . 358
24.4 Risk, books and longer works . . . 358
24.5 Statistics . . . 358
24.6 Statistics, books and longer works . . . 359
24.7 Stochastic . . . 359
24.8 Stochastic, books and longer works . . . 361

25 TOPOLOGY and GEOMETRY 362
25.1 Topology and Geometry . . . 362
25.2 Topology and Geometry, books and longer works . . . 363

II August 2014 Reading List 365

26 ABSTRACT ALGEBRA 365
26.1 Abstract Algebra, Books and Longer Works . . . 365
26.1.1 Automorphism . . . 365
26.1.2 Equivalence . . . 366
26.1.3 Various Abstract Algebra . . . 367
26.2 Abstract Algebra, Papers and Shorter Works . . . 370
26.2.1 Automorphism . . . 370
26.2.2 Cosets . . . 372
26.2.3 Equivalence . . . 373
26.2.4 Morphisms . . . 375
26.2.5 Order . . . 376
26.2.6 Pogroups (Partially Ordered Groups) . . . 382
26.2.7 Polytopes . . . 384
26.2.8 Posets (Partially Ordered Sets) . . . 385
26.2.9 Solvable . . . 390
26.2.10 Sylow . . . 392
26.2.11 Various Abstract Algebra . . . 396

27 ADVANCED CALCULUS 402
27.1 Advanced Caclulus, Books and Longer Works . . . 402
27.1.1 Hilbert Spaces . . . 402
27.1.2 Various Advanced Calculus . . . 403
27.2 Advanced Caclulus, Papers and Shorter Works . . . 409
27.2.1 Almost Sure . . . 409
27.2.2 Borel . . . 411

27.2.3 Continuous . . . 412
27.2.4 Energy Norm Hilbert Space . . . 413
27.2.5 Hodge Decomposition . . . 414
27.2.6 Infimum Conformal . . . 416
27.2.7 Lebesgue . . . 418
27.2.8 Many to Few . . . 420
27.2.9 Many to One . . . 420
27.2.10 Measure . . . 420
27.2.11 Spacelike . . . 421
27.2.12 Strongly Almost In the Sense That . . . 423
27.2.13 Super . . . 424
27.2.14 Various Advanced Calculus . . . 427

28 AGRICULTURE **436**
28.1 Agriculture, Books and Longer Works . . . 436

29 AEROSPACE **442**
29.1 Aerospace, Books and Longer Works . . . 442

30 APPROXIMATIONS and NUMERICAL METHODS **445**
30.1 Approximations and Numerical Methods, Books and Longer Works . . . 445
30.2 Approximations and Numerical Methods, Papers and Shorter Works . . . 461
30.2.1 Runge Kutta . . . 461
30.2.2 Various Approximations and Numerical Methods . . . 466

31 BIO–MATHEMATICAL BIOLOGY **478**
31.1 Mathematical Biology, Books and Longer Works . . . 478
31.1.1 Biomechanics . . . 478
31.1.2 Neuroscience . . . 479
31.1.3 Various Mathematical Biology . . . 480
31.2 Mathematical Biology, Papers and Shorter Works . . . 484
31.2.1 Ecology and Posets (Partially Ordered Sets) . . . 484
31.2.2 Various Mathematical Biology . . . 485

32 COMPLEX VARIABLES **523**
32.1 Complex Variables, Books and Longer Works . . . 523
32.2 Complex Variables, Papers and Shorter Works . . . 526

33 COMPLEXITY, COMPUTATION, and COMPUTER SCIENCE **533**
33.1 Complexity, Computation, and Computer Science, Books and Longer Works 533
33.2 Complexity, Computation, and Computer Science, Papers and Shorter Works 534
33.2.1 Image . . . 534
33.2.2 Various Complexity, Computation, and Computer Science . . . 535

34 DENSE and DENSITY **537**
34.1 Dense and Density, Papers and Shorter Works . . . 537

35 DIFFERENTIAL EQUATIONS **555**
35.1 Differential Equations, Books and Longer Works 555
35.1.1 Boundary 555
35.1.2 Various Differential Equations 556
35.2 Differential Equations, Papers and Shorter Works 566

36 ELECTRICITY **579**
36.1 Electricity, Books and Longer Works 579

37 ENVIRONMENTAL and GREEN **584**
37.1 Environmental and Green, Books and Longer Works 584
37.2 Environmental and Green, Papers and Shorter Works 589
37.2.1 Public Health 589
37.2.2 Various Environmental and Green 589

38 FINANCE **592**
38.1 Finance, Books and Longer Works 592
38.1.1 Accounting 592
38.1.2 Various Finance 593

39 FLOWS, FLUIDS, WATER, and WAVES **602**
39.1 Flows, Fluids, Water, and Waves, Books and Longer Works 602
39.2 Flows, Fluids, Water, and Waves, Papers and Shorter Works 604
39.2.1 Boussinesq 604
39.2.2 Flows 604
39.2.3 Fluid 605
39.2.4 Hydrofoil 608
39.2.5 KdV, Korteweg-de Vries 608
39.2.6 Mixing 610
39.2.7 No slip 611
39.2.8 Schrödinger 611
39.2.9 Surface 611
39.2.10 Water 612
39.2.11 Waves 623

40 FRACTIONAL DIMENSION **625**
40.1 Fractional Dimension, Books and Longer Works 625
40.2 Fractional Dimension, Papers and Shorter Works 625

41 FRENCH **631**
41.1 French, Books and Longer Works 631
41.2 French, Papers and Shorter Works 632

42 GAME THEORY and GAMES ON GRAPHS **642**
42.1 Game Theory and Games on Graphs, Books and Longer Works 642
42.2 Game Theory and Games on Graphs, Papers and Shorter Works 643
42.2.1 Games on Graphs 643
42.2.2 Various Game Theory 649

43 GEOPHYSICS **655**
43.1 Geophysics, Books and Longer Works 655
43.2 Geophysics, Papers and Shorter Works 657
43.2.1 Lorenz 657
43.2.2 Various Geophysics 658

44 GERMAN **659**
44.1 German, Books and Longer Works 659
44.2 German, Papers and Shorter Works 659

45 GRAPH THEORY and DISCRETE MATH **668**
45.1 Graph Theory and Discrete Math, Books and Longer Works 668
45.2 Graph Theory and Discrete Math, Papers and Shorter Works 670
45.2.1 Discrete Posets (Partially Ordered Sets) 670
45.2.2 Various Graph Theory and Discrete Math 677

46 HAMILTONIAN SYSTEMS **684**
46.1 Hamilonian Systems, Books and Longer Works 684
46.2 Hamiltonian Systems, Papers and Shorter Works 685

47 INDUSTRIAL and APPLIED MATH **703**
47.1 Industrial and Applied Math, Books and Longer Works 703
47.2 Industrial and Applied Math, Papers and Shorter Works 707

48 ITALIAN **743**
48.1 Italian, Books and Longer Works 743
48.2 Italian, Papers and Shorter Works 743

49 LINEAR ALGEBRA and MATHS **744**
49.1 Linear Algebra and Maths, Books and Longer Works 744
49.2 Linear Algebra and Maths, Papers and Shorter Works 745
49.2.1 Adjoint 745
49.2.2 Almost Isometries 746
49.2.3 Bayes 747
49.2.4 Circulant Matrix Determinant 750
49.2.5 Circulant Matrix Differential 751
49.2.6 Circulant Matrix Hilbert Space 753
49.2.7 Curvature 754
49.2.8 Curvature Discrete 756
49.2.9 Fatou 758

49.2.10 Fourier . . . 761
49.2.11 Gershgorin . . . 762
49.2.12 Grassmannian . . . 763
49.2.13 Green . . . 765
49.2.14 Hadamard General . . . 766
49.2.15 Hadamard Manifold . . . 768
49.2.16 Hadamard Matrix . . . 771
49.2.17 Isometries . . . 772
49.2.18 Jordan Algebra . . . 776
49.2.19 Jordan Canonical . . . 776
49.2.20 Jordan Derivation . . . 779
49.2.21 Jordan Inequality . . . 780
49.2.22 Jordan Product . . . 781
49.2.23 Jordan Triple System . . . 781
49.2.24 Kalman . . . 782
49.2.25 Krylov . . . 785
49.2.26 Law of Large Numbers . . . 786
49.2.27 Least Squares . . . 791
49.2.28 Lebesgue Convergence . . . 795
49.2.29 Lipschitz . . . 796
49.2.30 Matrix Factorisation . . . 797
49.2.31 Moore Penrose . . . 800
49.2.32 Nonlinear Least Squares . . . 805
49.2.33 Riesz . . . 808
49.2.34 Self Adjoint . . . 810
49.2.35 Singular Value Decomposition . . . 815
49.2.36 Symplectic Invariant . . . 820
49.2.37 Tridiagonal . . . 822
49.2.38 Weyl Algebra . . . 822
49.2.39 Weyl Various . . . 823
49.2.40 Various Linear Algebra and Maths . . . 828

50 LOGIC and LANGUAGES **840**
50.1 Logic and Languages, Papers and Shorter Works . . . 840

51 MATHS and NONMATHS **841**
51.1 Maths and Nonmaths, Books and Longer Works . . . 841
51.2 Maths and Nonmaths, Papers and Shorter Works . . . 845

52 NANO **846**
52.1 Nano, Books and Longer Works . . . 846
52.2 Nano, Papers and Shorter Works . . . 846

53 NUMBER THEORY **847**
53.1 Number Theory, Books and Longer Works 847
53.2 Number Theory, Papers and Shorter Works 847

54 PHYSICS, MATERIALS, and ENGINEERING **848**
54.1 Physics, Materials, and Engineering, Books and Longer Works 848
54.1.1 Astronomy and Astrophysics 848
54.1.2 Various Physics, Materials, and Engineering 849
54.2 Physics, Materials, and Engineering, Papers and Shorter Works 855
54.2.1 Ergodic 855
54.2.2 Various Physics, Materials, and Engineering 856

55 PROBABILITY, RANDOM, and STATISTICS **858**
55.1 Probability, Random, and Statistics, Books and Longer Works 858
55.2 Probability, Random, and Statistics, Papers and Shorter Works 859

56 RENEWABLE ENERGY **862**
56.1 Renewable Energy, Books and Longer Works 862
56.2 Renewable Energy, Papers and Shorter Works 872

57 SOLAR ENERGY **874**
57.1 Solar Energy, Books and Longer Works 874
57.2 Solar Energy, Papers and Shorter Works 876

58 SPECIAL FUNCTIONS **876**
58.1 Special Functions, Books and Longer Works 876
58.2 Special Functions, Papers and Shorter Works 877

59 SPECTRAL and SPECTRUM **879**
59.1 Spectral and Spectrum, Books and Longer Works 879
59.2 Spectral and Spectrum, Papers and Shorter Works 881

60 TENSORS **886**
60.1 Tensors, Books and Longer Works 886
60.2 Tensors, Papers and Shorter Works 886

61 THESES, DISSERTATIONS VARIOUS TOPICS **888**

62 TOPOLOGY and GEOMETRY **898**
62.1 Topology and Geometry, Books and Longer Works 898
62.2 Topology and Geometry, Papers and Shorter Works 906
62.2.1 Tiling 906
62.2.2 Various Topology and Geometry 907

63 TROPICAL **922**
63.1 Tropical, Papers and Shorter Works 922

64 WIND **923**
64.1 Wind, Books and Longer Works 923
64.2 Wind, Papers and Shorter Works 924

Part I
December 2015 Reading List

1 AEROSPACE

1.1 Aerospace, books and longer works

A Modern Course in Aeroelasticity, Earl H. Dowell 2015 Springer

Advances in Aerospace Guidance, Navigation and Control, Joel Bordeneuve-Guibe, Antoine Drouin, Clement Roos eds 2015 Springer

Aerodynamic and Aerothermodynamic Analysis of Space Mission Vehicles, Antonio Viviani, Giuseppe Pezzella 2015 Springer

Aerodynamic Data of Space Vehicles, Claus Weiland 2014 Springer

Aeroservoelasticity, Modeling and Control, Ashish Tewari 2015 Springer

Aerospace Robotics II, Jerzy Sasiadek ed 2015 Springer

Aviation Risk and Safety Management, Methods and Applications in Aviation Organizations, Roland Muller, Andreas Wittmer, Christoper Drax eds 2014 Springer

Basics of Aerothermodynamics, Ernst Heinrich Hirschel 2015 Springer

Damage Growth in Aerospace Composites, Aniello Riccio ed 2015 Springer

Defending Against Asteroids and Comets, D.P.S. Dearborn, P.L. Miller, a chapter in Handbook of Cosmic Hazards and Planetary Defense 2015 Springer

Impact Risk Estimation and Assessment Scales, D.P.S. Dearborn, P.L. Miller, a chapter in Handbook of Cosmic Hazards and Planetary Defense 2015 Springer

Introduction to Transonic Aerodynamics, Roelof Vos, Saeed Farokhi 2015 Springer

NASA Formal Methods, 6th International Symposium, NFM 2014, Julia M. Badger, Kristin Yvonne Rozier eds 2014 Springer

NASA Formal Methods, 7th International Symposium, NFM 2015, Julia M. Badger, Kristin Yvonne Rozier eds 2015 Springer

Orbital Mechanics and Astrodynamics, Techniques and Tools for Space Missions, Gerald R. Hintz 2015 Springer

Regulation of Commercial Space Transport, The Astrocizing of ICAO, Ruwantissa Abeyratne 2015 Springer

Shock and Vibration, Aircraft, Aerospace, and Energy Harvesting, Vol 9, Alfred Wicks ed 2015 Springer

Structural Studies of Liquids and Glasses Using Aerodynamic Levitation, a thesis, Thomas Farmer 2015 Springer

2 ANALYSIS

2.1 Algebras

A version of the Goldman–Millson theorem for filtered L_∞ algebras, Vasily A Dolgushev, Christopher L Rogers in J Algebra 2015 TempleU, Germany

Arbitrary algebras with a multiplicative basis, Antonio J Calderon Martin, Francisco J Navarro Izquierdo in Lin Alg+its Appl 2015 Spain

Canonical Traces and Directly Finite Leavitt Path Algebras, Lia Vas in Alg Represent Theor 2015 USciences in Pennsylvania

Classes of Invariant Subspaces for Some Operator Algebras, Jan Hamhalter, Ekaterina Turilova in Int J Theor Phys 2014 Czech Rep, Russia

Equivalent groupoids have Morita equivalent Steinberg algebras, Lisa Orloff Clark, Aidan Sims in J Pure+Appl Alg 2015 New Zealand, Australia

Finite cycles of indecomposable modules, Piotr Malicki, Jose Antonio del la Pena, Andrzej Skowronski in J Pure+Appl Alg 2015 Mexico, Poland

Hilbert series of modules over Lie algebroids, Rolf Kallstrom, Yohannes Tadesse in J Algebra 2015 Sweden

Kummer Subspaces of Tensor Products of Cyclic Algebras, Adam Chapman in arXiv 2014 Belgium

Leavitt path algebras, the first decade, Gene Abrams in Bull Math Sci 2015 UColorado

n-representation infinite algebras, Martin Herschend, Osamu Iyama, Steffen Oppermann 2014 Japan, Norway

On dynamical realizations of $l-$conformal Galilei and Newton–Hooke algebras, Anton Galajinsky, Ivan Masterov in Nuclear Phys B 2015 Russia

On tame algebras of semiregular tubular type, Jerzy Bialkowski, Andrzej Skowronski 2015 Poland

On the spectra of C^*-algebras of slowly oscillating functions on locally compact groups, T Alaste, M Filali in Adv in Math 2015 Finland

Representations of rational Cherednik algebras with minimal support and torus knots, Pavel Etingof, Eugene Gorsky, Ivan Losev in Adv in Math 2015 USA, Russia

Simple Schrödinger modules which are locally finite over the positive part, Xiufu Zhang, Yongsheng Cheng in J Pure+Appl Alg 2015 China

The Bass and Topological Stable Ranks of the Bohl Algebra Are Infinite, Raymond Mortini, Rudolf Rupp, Amol Sasane in Acta Appl

Math 2015 France, Germany, UK

The mirabolic Hecke algebra, Daniele Rosso in J Algebra 2014 Canada

The module structure of the Solomon-Tits algebra of the symmetric group, Manfred Schocker in J Algebra 2006 UK

The representations of quantized walled Brauer algebras, Hebing Rui, Linliang Song in J Pure+Appl Alg 2015 China

Universal localisations and tilting modules for finite dimensional algebras, Frederik Marks in J Pure+Appl Alg 2015 Germany

2.2 Axiom

A forbidden subgraph characterization of some graph classes using betweenness axioms, M Changat, A Lakshmikuttyamma, J Mathews, I Peterin, P G Narasimha-Shenoi, G Seethakuyttyamma, S Spacapan 2013

A multidimensional central limit theorem with speed of convergence for axiom A diffeomorphisms, Xia Hongqiang, Tan Dayao in Acta Math Sci 2011 China

A note on 'On separation axioms in I-fuzzy topological spaces,' Fu-Gui Shi, Hong-Yan Li in Fuzzy Sets+Sys 2007 China

An empirical test of some measurement-theoretic axioms for fuzzy sets, C Desimpelaere, T Marchant in Fuzzy Sets+Sys 2007 Belgium

An infinity which depends on the axiom of choice, Vladimir Kanovei, Vassily Lyubetsky in Appl Math+Comput 2012 Russia

Axioms and uniqueness theorem for Tsallis entropy, Sumiyoshi Abe in Physics Letters A 2000 Japan

Beyond the Shannon-Khinchin fomulation, the composability axiom and the universal-group entropy, Piergiulio Tempesta in arXiv 2014 Spain

Construction of dual modules using Martin's Axiom, Rudiger Gobel, Sebastian Pokutta in J Algebra 2008 Germany, MIT

Generalization of Shannon–Khinchin Axioms to Nonextensive Systems and the uniqueness theorem for the nonextensive entropy, Hiroki Suyari in IEEE Trans on Info Theory 2004 Japan

Generalized Shannon-Khinchin axioms and uniqueness theorem for pseudo-additive entropies, Velimir M Ilic, Miomir S Stankovic in Physics A 2014 Serbia

Involutive uninorm logic with the n-potency axiom, San-Min Wang in Fuzzy Sets+Sys 2013 China

On dependencies and independencies of fuzzy implication axioms, Y Shi, B Van Gasse, D Ruan, E E Kerre in Fuzzy Sets+Sys 2010 Belgium

On minimization of axiom sets characterizing covering-based ap-

proximation operators, Yan-Lan Zhang, Mao-Kang Luo in Info Sci 2011 China

On stratified L-convergence spaces, Fischer's diagonal axiom, Lingqiang Li, Qiu Jin, Kai Hu in Fuzzy Sets+Sys 2014 China

On stratified L-convergence spaces, pretopological axioms and diagonal axioms, Lingqiang Li, Qiu Jin in Fuzzy Sets+Sys 2012 China

On the completeness of the semigraphoid axioms for deriving arbitrary from saturated conditional independence statements, Marc Gyssens, Mathias Niepert, Dirk Van Gucht in Info Proc Lett 2014

On the independence of axioms in BL and MTL, Karel Chvalovsky in Fuzzy Sets+Sys 2012 Czech Rep

Shortest single axioms for commutative moufang loops of exponent 3, Nick C Fiala in Discrete Math 2008 StCloudU in Minnesota

Uninorm logic with the n-potency axiom, San-min Wang in Fuzzy Sets+Sys 2012 China

Using one axiom to characterize rough set and fuzzy rough set approximations, Guilong Liu in Info Sci 2013 China

2.3 Induction

A predicative completion of a uniform space, Josef Berger, Hajime Ishihara, Erik Palmgren, Peter Schuster in Annals Pure+Appl Logic 2012 Germany, Japan, Sweden, UK

About Goodman's theorem, Thierry Coquand in Annals Pure+Appl Logic 2013 Sweden

Alternative set theories, Jean A Larson, a chapter in Handbook of the History of Logic, Sets and Extensions in the Twentieth Century, Kanamori ed 2012 Elsevier

Approximations and uncertainty measure in incomplete information systems, Jianhua Dai, Qing Xu in Info Sci 2012 China

Aspects of predicative algebraic set theory I, exact completion, Benno van den Berg, Ieke Moerdijk in Annals Pure+Appl Logic 2008 Germany, Netherlands

Aspects of predicative algebraic set theory II, realizability, Benno van den Berg, Ieke Moerdijk in Theor Comp Sci 2011 Germany, Netherlands

Automatic proofs by induction in theories without constructors, Jean-Pierre Jouannaud, Emmanuel Kounalis in Info+Comput 1989 France

Canonical structure in the universe of set theory, part one, James Cummings, Matthew Foreman, Menachem Magidor in Annals Pure+Appl

Logic 2004 USA

Canonical structure in the universe of set theory, part two, James Cummings, Matthew Foreman, Menachem Magidor in Annals Pure+Appl Logic 2006 USA, Israel

Chainability of inverse limits with a single irreducible function on [0,1] , James P Kelly in Topology+its Appl 2014 BaylorU

Classes and truths in set theory, Kentaro Fujimoto in Annals of Pure+Appl Logic 2012 UK

Conjunctive and boolean grammars, the true general case of the context-free grammars, Alexander Okhotin in Comp Sci Rev 2013 Finland

Constructing strongly equivalent nonisomorphic moedels for unstable theories, Tapani Hyttinen, Heikki Tuuri in Annals Pure+Appl Logic 1991 Finland

Constructive completions of ordered sets, groups, and fields, Erik Palmgren in Annals Pure+Appl Logic 2005 Sweden

Constructive toposes with countable sums as models of constructive set theory, Alex Simpson, Thomas Streicher in Annals of Pure+Appl Logic 2014 UK, Germany

Constructive Zermelo-Fraenkel set theory and the limited principle of omniscience, Michael Rathjen in Annals of Pure+Appl Logic 2014 UK

Constructivist and structuralist foundations, Bishop's and Lawvere's theories of sets, Erik Palmgren in Annals Pure+Appl Logic 2012 Sweden

Continuity and geometric logic, Steven Vickers in J Appl Logic 2014 UK

Convexity preservation of five-point binary subdivision scheme with a parameter, Jieqing Tan, Yangang Yao, Huijuan Cao, Li Zhang in Appl Math+Comput 2014 China

CZF does not have the existence property, Andrew W Swan in Annals Pure+Appl Logic 2014 UK

Estimates for continuity envelopes and approximation numbers of Bessel potentials, Mikhail L Goldman, Dorothee D Haroske in J Approx Theory 2013 Russia, Germany

Extensions of smooth mappings into biduals and weak continuity, Yun Sung Choi, Petr Hajek, Han Ju Lee in Adv in Math 2013 Korea, Czech Rep

Generalizing classical and effective model theory in theories of operations and classes, Paolo Mancosu in Annals Pure+Appl Logic 1991 UK

Generalizing realizability and Heyting models for constructive set theory, Albert Ziegler in Annals Pure+Appl Logic 2012 Germany

Induction formulae for Mackey functors with applications to representations of the twisted quantum double of a finite group, Yugen Takegahara in J Algebra 2014 Japan

Induction in stages for crossed products of C^*-algebras by maximal coactions, A Huef, S Kaliszewski, I Raeburn, D P Williams in J Functional Analysis 2007 Australia, ArizonaStateU, Dartmouth

Inductive types and exact completion, Benno van den Berg in Annals Pure+Appl Logic 2005 Netherlands

Infinite combinatorics, Jean A Larson, a chapter in Handbook of the History of Logic, Sets and Extensions in the Twentieth Century, Kanamori ed 2011 Elsevier

Inverse limits with irreducible set-valued functions, James P Kelly in Topology+its Appl 2014 BaylorU

Join-completions of L-ordered sets, Kaiyun Wang, Bin Zhao in Fuzzy Sets+Sys 2012 China

Koszul duality of affine Kac-Moody algebras and cyclotomic rational double affine Hecke algebras, P Shan, M Varagnolo, E Vasserot in Adv in Math 2014 France

Limit shape of random convex polygonal lines, even more universality, Leonid V Bogachev in J Comb Theory A 2014 UK

Lipschitz continuity of refinable functions on the Heisenberg group, Yu Liu, Mei Yu in J Math Anal+Appl 2008 China

Lipschitz factorization through subsets of Hilbert space, Javier Alejandro Chavez-Dominguez in J Math Anal+Appl 2014 UTexas-Austin

Nominal Lawvere theories, a category theoretic account of equational theories with names, Ranald Clouston in J Comp+Sys Sci 2014 Australia

On the continuity of pullback attractors for evolution processes, Alexandre N Carvalho, Jose A Langa, James C Robinson in Nonlinear Anal 2009 Brazil, UK

On the coverings by tolerance classes, W Bartol, J Miro, K Pioro, F Rossello in Info Sci 2004 Poland, Spain

On the limit and existence principles in elementary arithmetic and Σ^0_n-consequences of theories, Lev D Beklemishev, Albert Visser 2005 Netherlands, Russia

On the modulus of continuity for spectral measures in substitution dynamics, Alexander I Bufetov, Boris Solomyak in Adv in Math 2014 France, Russia, UWashington

On the proof-theoretic strength of monotone induction in explicit mathematics, Thomas Glass, Michael Rathjen, Andreas Schluter in Annals of Pure+Appl Logic 1997 Germany, Stanford

Operators $L^1(R_+) \to X$ and the norm continuity problem for semigroups, Ralph Chilll, Yuri Tomilov in J Functional Anal 2009

France, Poland

Partial order relation for approximation operators in covering based rough sets, Mauricio Restrepo, Chris Cornelis, Jonatan Gomez in Info Sci 2014 Columbia, Spain

Partition relations for countable topological spaces, James E Baumgartner in J Comb Theor A 1986 Dartmouth

Proof-theoretic conservations of weak weak inutitionistic constructive set theories, Lev Gordeev in Annals Pure+Appl Logic 2013 Germany, Belgium

Quasi-hereditary algebras, exact Borel subalgebras, A_∞-categories and boxes, Steffen Koenig, Julian Kulshammer, Sergiy Ovsienko in Adv in Math 2014 Germany, Ukraine

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Protein Design, Methods and Applications, Valentin Kohler ed 2014 Springer

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Self-Gravitating Klein–Gordon Fields in Asymptotically Anti-de-Sitter Spacetimes, Gustav Holzegel, Jacques Smulevici in Ann Henri Poincare 2012 PrincetonU, Germany

Skewon field and cosmic wave propagation, Wei-Tou Ni in Phys Lett A 2014 Taiwan

Spacelike graphs of finite total curvature in certain 3-dimensional generalized robertson-walker spacetime, Alfonso Romero, Rafael M Rubio, Juan J Salamanca in Reports...2014

Spherical symmetric solutions for the motion of relativistic membranes and null membranes in the reissner-nordstrom space-time, Shaoying LUO, Qi LIU in Acta...2014 China

Spherically symmetric, self-similar spacetimes, Sanjay M Wagh, Keshlan S Govinder in Gen Relativ Gravit 2006 India

Spinning gauged boson stars in anti-de Sitter spacetime, Olga Kichakova, Jutta Kunz, Eugen Radu in Phys Lett B 2014 Germany

String corrected spacetimes and SU(N)-structure manifolds, Katrin Becker, Melanie Becker, Daniel Robbins in Nuclear Phys B article in press TexasA&MU

Supermembrane actions for Gaiotto–Maldacena backgrounds, Bogdan Stefanski Jr in Nuclear Physics B 2014 UK

Tensor hierarchy and generalized Cartan calculus in SL(3) × SL(2) exceptional field theory, Olaf Hohm, Yi-Nan Wang in JHEP 2015 MIT

The anisotropic lambda-deformed SU(2) model is integrable, Konstantinos Sfetsos, Konstantinos Siampos in Physics Lett B 2015 Greece, Switzerland

The Cauchy problem for semi-linear Klein–Gordon equations in

de Sitter spacetime, Makoto Nakamura in J Math Anal+Appl 2014 Japan

The Universal Phase Space of AdS_3 Gravity, Carlos Scarinci, Kirill Krasnov in Commun Math Phys 2013 UK, Germany

Thermodynamical laws and spacetime geometry, T Chrobok, Borzeszkowski in Gen Relativ Gravit 2005 Germany

Time Flat Surfaces and the Monotonicity of the Spacetime Hawking Mass, Hubert L Bray, Jeffery L Jauregui in Commun Math Phys 2015 DukeU, UnionCollege in NewYork

Towards (3 + 1) gravity through Drinfel'd doubles with cosmological constant, Angel Ballesteros, Herranz, Naranjo in Physics Lett B 2015 Spain

Transparency of strong gravitational waves, Y Hadad, V Zakharov in J Geom+Phys 2014 UArizona

$U(1)_{B-L}$ extra-natural inflation with Standard Model on a brane, Kazuyuki Furuuchi, Jackson M S Wu in Physics Lett B 2014 India, Taiwan

Unconventional supersymmetry and its breaking, Pedro Alvarez, Pablo Pais, Jorge Zanelli in Physics Lett B 2014 Chile, UK

24 PROBABILITY, RANDOM, STATISTICS, STOCHASTIC

24.1 Bayes

Bayesian uncertainty analysis for complex physical systems modelled by computer simulators with applications to tipping points, Caiado, Goldstein 2015 UK

Sparse estimation using Bayesian hierarchical prior modeling for real and complex linear models, Pedersen, Manchon, Badiu, Shutin, Fleury in Signal Proc 2015 Denmark, Germany

Structure space of Bayesian networks is dramatically reduced by subdividing it in sub-networks, Heni Bouhamed, Afif Masmoudi, Theirry Lecroq, Ahmed Rebai 2015 Tunisia, France

24.2 Random

A random Laplace transform method for solving random mixed parabolic differential problems, M C Casaban, J C Cortes, L Jodar in Appl Math+Comput 2015 Spain

On a nonstandard Brownian motion and its maximal function, Bernardo B de Andrade in Physica A 2015 Brazil

Stability results of random impulsive semilinear differential equations, M Gowrisankar, P Mohankumar, A Vinodkumar in Act Math Sci 2014 India

Weak regularity of Gauss mass transport, Alexander V Kolesnikov

in Bull Sci Math 2014 Russia

24.3 Risk

Recommendations on the use and design of risk matrices, Nijs Jan Duijm in Safety Sci 2015 Denmark

24.4 Risk, books and longer works

Agile Risk Management, Alan Moran 2014 Springer

Risk - A Multidisciplinary Introduction, Claudia Kluppelberg, Daniel Straub, Isabell M Welpe eds 2015 Springer

Risk Assessment and Risk-Driven Testing Workshop 2013, Bauer, Grosman, Seehusen, Stolen, Wendland eds 2014 Springer

Risk Management for Engineering Projects, Procedures, Methods, and Tools, Nolberto Munier 2014 Springer

Risk-Pooling Essentials, Reducing Demand and Lead-Time Uncertainty, Gerald Oeser 2015 Springer

Tychastic Measure of Viability Risk, Jean-Pierre Aubin, Luxi Chen, Olivier Dordan 2014 Springer

24.5 Statistics

A partial overview of the theory of statistics with functional data, Antonio Cuevas in J Stat Plan+Infer 2014 Spain

A unified approach to estimating a normal mean matrix in high and low dimensions, Hisayuki Tsukuma, Tatsuya Kubokawa in J Multivar Anal 2015 Japan

Matrix variate slash distribution, Y Murat Bulut, Olcay Arslan in J Multivar Anal 2015 Turkey

24.6 Statistics, books and longer works

Applied Multivariate Statistical Analysis, Wolfgang Karl Hardle, Leopold Simar 2015 Springer

Basics of Modern Mathematical Statistics, Vladimir Spokoiny, Thorsten Dickhaus 2015 Springer

Modern Multivariate Statistical Techniques, Regression, Classification, and Manifold Learning, Alan Julian Izenman 2013 Springer

Probability Distributions in Risk Management Operations, Constantinos Artikis, Panagiotis Artikis 2015 Springer

Statistical Learning and Data Sciences Symposium 2015, Alexander Gammerman, Vladimir Vovk, Harris Papadopoulos eds 2015 Springer

24.7 Stochastic

A note on stochastic semilinear equations and their associated Fokker–Planck equations, Michael Rockner, Rongchan Zhu, Xiangchan Zhu 2014 China, Germany

A partial history of the early development of continuous-time nonlinear stochastic systems theory, Harold J Kushner in Automatica 2014 BrownU

Almost automorphy and various extensions for stochastic processes, Becouhene, Challali, Mellah, de Fitte, Smaali in J Math Anal+Appl 2014 in Press, Algeria, France

Approximate boundary controllability of Sobolev-type stochastic differential systems, M Palanisamy, R Chinnathambi in J Egyptian Math Soc 2014 India

Determinantal martingales and noncolliding diffusion processes, Makoto Katori in Stoch Proc+their Appl 2014 Japan

Generalized stochastic evolution equations, Kenneth L Kuttler, Ji Li in J Diff Eq 2014 BrighamYoungU, Inst Math in Minnesota

Matrix normalized convergence of a Levy process to normality at zero, Ross A Maller, David M Mason in Stoch Proc+their Appl 2015 Australia, UDelaware

New sufficient conditions of existence, moment estimations and non confluence for SDEs with non-Lipschitzian coefficients, Guangqiang Lan, Jiang-Lun Wu 2014 China, UK

Probabilistic approach for semi-linear stochastic fractal equations, Yingchao Xie, Qi Zhang, Xicheng Zhang in Stoch Proc+their Appl 2014 China

Robust stabilization design of nonlinear stochastic partial differential systems, fuzzy approach, Yu-Te Chang, Shih-Ju Ho, Bor-Sen Chen in Fuzzy Sets+Sys 2014 Taiwan

Solvability of forward–backward stochastic partial differential equations, Hong Yin in Stoch Proc+their Appl 2014 SUNYBrockport

Time-splitting approximation of the Cauchy problem for a stochastic conservation law, Caroline Bauzet in Math+Comput in Sim 2014 France

Weak convergence of probability measures of Yosida approximate mild solutions of neutral SPDEs, T E Govindan in Stats+Prob Lett 2014 Mexico

Φ*-entropy inequality and application for SDEs with jumps*, Feng-Yu Wang in J Math Anal+Appl 2014 China, UK

24.8 Stochastic, books and longer works

Stochastic Geometry, Spatial Statistics and Random Fields, Models and Algorithms, Volker Schmidt ed 2015 Springer

Stochastic Integration in Banach Spaces, Theory and Applications, Vidyadhar Mandrekar, Barbara Rudiger 2015 Springer

25 TOPOLOGY and GEOMETRY

25.1 Topology and Geometry

Analytic cycles, Bott–Chern forms, and singular sets for the Yang–Mills flow on Kähler manifolds, Benjamin Sibley, Richard Wentworth in Adv in Math 2015 Belgique, UMaryland

Comparing G-maps with other topological data structures, Patrick Erik Bradley, Norbert Paul in Geoinformatica 2014

Fano manifolds of Calabi–Yau Hodge type, Atanas Iliev, Laurent Manivel in J Pure+Appl Alg 2015 Rep Korea, Canada

Invariance properties of generalized polarization tensors and design of shape descriptors in three dimensions, Habib Ammari, Chung, Kang, Wang in Appl Comput Harmonic...2015France, Rep Korea

Notes on the rescaled sasaki type metric on the cotangent bundle, Aydin Gezer, Murat Altunbas in Acta Math Sci 2014 Turkey

On convex projective manifolds and cusps, D Cooper, D D Long, S Tillmann in Adv in Math 2015 UCSantaBarbara, Australia

Quillen superconnections and connections on supermanifolds, Jose V Beltran, Juan Monterde, Jose Vallejo in J Geom+Phys 2014 Spain, Mexico

Spectral geometry with a cut-off, topological and metric aspects,

Francesco D'Andrea, Fedel Lizzi, Pierre Martinetti in J Geom+Phys 2014 Italy, Spain

The classification of golden shaped hypersurfaces in Lorentz space forms, Dan Yang, Yu Fu in J Math Anal+Appl 2014 China

Uniqueness of quasi-Einstein metrics on 3-dimensional homogeneous manifolds, A Barros, E Ribeiro Jr, J Silva Filho in Diff Geom+its Appl 2014 Brazil

25.2 Topology and Geometry, books and longer works

5000 Years of Geometry, Mathematics in History and Culture, Christoph J Scriba, Peter Schreiber 2015 Springer

An Invitation to Web Geometry, Jorge Vitorio Pereira, Luc Pirio 2015 Springer

CAD, 3D Modeling, Engineering Analysis, and Prototype Experimentation, Industrial and Research Applications, Jeremy Zheng Li 2015 Springer

Geometry and Analysis on Manifolds, Takushiro Ochiai, Mabuchi, Maeda, Noguchi, Weinstein eds 2015 Springer

Geometry, Mechanics, and Dynamics, The Legacy of Jerry Marsden, Dong Eui Chang, Darryl D Holm, George Patrick, Tudor Ratiu eds 2015 Springer

Introduction to Global Variational Geometry, Demeter Krupka

2015 Springer

Mathematical Methods for Curves and Surfaces, 2012 Conference, Michael Floater, Tom Lyche, Marie-Laurence Mazure, Knut Morken, Larry Schumaker eds 2014 Springer

Recent Progress in General Topology III, K P Hart, J van Mill, P Simon eds 2014 Springer

Tensegrity Structures, Form, Stability, and Symmetry, Jing Yao Zhang, Makoto Ohsaki 2015 Springer

Topological and Statistical Methods for Complex Data, Tackling Large-Scale, High-Dimensional, and Multivariate Data Spaces, Janine Bennett, Vivodtzev, Pascucci eds 2015 Springer

Part II
August 2014 Reading List

26 ABSTRACT ALGEBRA

26.1 Abstract Algebra, Books and Longer Works

26.1.1 Automorphism

Automorphic Forms, Anton Deitmar 2012 Springer

Automorphic Forms and L-Functions for Group GL(n,R), Goldfeld

Automorphism groups of finite p-groups, structure+appl, Geir Helleloid dissertation 2007 Stanford

Automorphism groups of resolvable incidence structures, Grant Lathrom dissertation 2003 UMissouri

Automorphism groups of the augmented distance graphs of trees, Joseph Scott Sportsman dissertation 1987 UIllinois

Automorphisms of Groups, Vitaly Roman'kov in Acta Applicandae Mathematicae 1992 Omsk Russia

Lattices in automorphism groups of polyhedral complexes, Anne Thomas dissertation 2007 UChicago

26.1.2 Equivalence

Concave central configurations in the four-body problem, Marshall Hampton dissertation 2002 UWashington

Endo-permutation and endo-monomial modules, Robert Hartmann dissertation 2002 UCSantaCruz

Equivalence classes of G-algebras over commutative rings, Dipra Mitra Thesis 2010 URegina

The equivalence problem in differential geometry, Joshua MacArthur 2005 Thesis Dalhousie

Equivalence transformations for classes of differential equations, Ian Lisle thesis 1992 UBritishColumbia

Incremental ascent of a modular tower via branch cycle designs, Paul Bailey Thesis 2002 UCIrvine

The moduli space of gauge equivalence classes of flat connections over a compact nonorientable surface, Nan-Kuo Ho Thesis 2003 UToronto

Representation theory of dynamical systems, Daniel Cross Thesis 2010 DrexelU

26.1.3 Various Abstract Algebra

Basic Algebra 1, Nathan Jacobson

Basic Algebra 2, Nathan Jacobson

Basic Homological Algebra, Osborne

Buildings, Finite Geometries and Groups, 2010 Conference N S Narasimha Sastry ed 2012 Springer

Clifford Algebras and Lie Theory, Eckhard Meinrenken 2013 Springer

Designing sorting networks, a new paradigm, Sherenaz Al-Haj Baddar, Kenneth Batcher 2011

Diagram Geometry Related to Classical Groups and Buildings, Francis Buekenhout, Arjeh M Cohen 2013 Springer

Dictionary on Lie Algebras and Superalgebras, Frappat, Sciarrino, Sorba

Double cosets of algebraic groups by maximal rank subgroups, William Ethan Duckworth dissertation 2000 UOregon

A Fast and progressive algorithm for skyline queries w totally- and partially-ordered domains, Hyungsoo Jung, Hyuck Han, Heon Yeom, Sooyong Kang in J Sys+Software 2010 Seoul Korea

Field and Galois Theory, Patrick Morandi

Finite groups with quasi-dihedral and wreathed sylow 2-subgroups, J L Alperin, Richard Brauer, Daniel Gorenstein in Transactions Amer Math Soc y 1970

A First Course in Abstract Algebra, Rotman

A First Graduate Course in Abstract Algebra, W J Wickless 2004

Galois Groups and Fundamental Groups, Tamas Szamuely 2004

Graded Syzygies, Irena Peeva 2011 Springer

Grothendeick semirings and definable endofunctions, Vinicius Cifu Lopes dissertation 2009 UIllinois

Groups as Galois Groups, Volklein

Harmonic Analysis on Finite Groups, Ceccherini-Silberstein Scarabotti Tolli

Hecke algebra action on siegel modular forms, Huan Yang dissertation 2002 Harvard

A History of Abstract Algebra, Israel Kleiner 2007

Isomorphisms of hecke algebras and deformation rings in the function field case, David Ogilvie dissertation 2005 UChicago

Lattice theory Foundation, Gratzer 2011

Lectures on Curves Surfaces and Projective Varieties, Beltrametti Carletti

Lectures on Polytopes, Ziegler

Monomialization of strongly prepared morphisms to surfaces, Olga Kashcheyeva dissertation 2003 UMissouri

On sylow 2-subgroups with no normal abelian subgroups of rank 3, in finite fusion-simple groups Anne Patterson in Trans Amer Math Soc 1974

On the nonexistence of certain morphisms from grassmannian to grassmannian in characteristic 0, Ajay Ramadoss dissertation 2005 UChicago

Projective Planes, Daniel Hughes, Fred Piper

Rigidity theorems for riemannian foliations of spheres and lie groups, Dimitris George Pispinis dissertation 1993 IndianaU

Some results on cut-elimination, provable well-orderings, induction and reflection, Toshiyasu Arai in Annals of Pure+Appl Logic 1998 Hiroshima Japan

Some topics in the dynamics of group actions on rooted trees, Grigorchuk in Proc Steklov Inst of Math 2011

The supercuspidal representations of U(2,1) and GSP4 over a

local field via hecke algebra isomorphisms, David Jabon dissertation 1989 UChicago

Symmetric Generation of groups, Curtis

Symmetries and Recursion Operators, Krasil'shchik Kersten

Topics in Algebra, Herstein

Toric Varieties Cox, Little, Schenck

Zeta Functions of Groups and Rings, Marcus du Sautoy, Luke Woodward 2008 Springer

26.2 Abstract Algebra, Papers and Shorter Works

26.2.1 Automorphism

Automorphism decompositions of graphs, Cara Wiblemo Thesis 2010 UWyoming

The automorphism group of algebraic groups, F Minbashian in J Algebra 1976 Princeton

Automorphism towers of general linear groups, Margret Soley Jonsdottir dissertation 2008 ColoradoState

Automorphisms and isomorphisms of chevalley groups and algebras, Anton Klyachko in J of Algebra 2010 Moscow

Automorphisms of hypberbolic groups and graphs of groups, Gilbert Levitt in Geometriae Dedicata 2004 Caen France

Cohomology of some subgroups of the automorphism group of the free group, Alexandra Pettet dissertation 2006 UChicago

Finitary automorphisms of groups, Belyaev, Shved in Trudy Inst Mat i Mekhaniki 2009

Global rigidity of higher rank abelian anosov algebraic actions, Federico Rodriguez Hertz, Zhiren Wang in Invent math 2014 PennStateU Yale

On commuting polynomial automorphisms of C^k, $k \geq 3$, Cinzla Bisi in Mathematische Zeitschrift 2008 Italy

On outer normal automorphisms of periodic products of groups, Atabekyan, Gevorgyan in J Contemp Math Analysis 2011 Armenia

Pullback conjectures for automorphism groups of free groups, Ben Wieland dissertation 2006 UChicago

Six Short Chapters on Automorphic Forms and L-Functions, Ze-Li Dou, Qiao Zhang 2012 Springer

Symmetric patterns of geodesics and automorphisms of surface groups, Richard Schwartz in Inventiones mathematicae 1997 Maryland

Tensor roots of isomorphisms and weak limits of transforma-

tions, V V Ryzhikov, A E Troitskaya in Math Notes 2006

Weiner's tauberian theorem for spherical functions on the automorphism group of the unit disk, Yaakov Ben Natan, Yoav Benyamini, Hakan Hedenmalm, Yitzhak Weit in Ark. Mat. 1996 Israel Sweden

26.2.2 Cosets

Character sums and double cosets, I M Isaacs, Gabriel Navarro in J of Algebra 2008 Wisconsin Spain

Einstein metrics on group manifolds and cosets, G W Gibbons, C N Pope in J of Geom+Phys 2011 Texas A&M

Enumerating big orbits and an application, B acting on the cosets of Fi23, Jurgen Muller, Max Neunhoffer, Robert Wilson in J Algebra 2007 Germany London

Ginzburg-weinstein isomorphisms for pseudo-unitary groups, McKenzie Russell Lamb dissertation 2009 UArizona

On the proportion of derangements in cosets of primitive permutation groups, Pavelescu dissertation 2012 USC

Operators based on double cosets of GL2, Yotsanan Meemark dissertation 2006 Penn StateU

A remark on double cosets, James Howie in J of Algebra 2011

26.2.3 Equivalence

Admissible orders on quotients of the free associative algebra, Jermiah Johnson dissertation 2010 UNH

The ample cone of a morphism, Oscar Felgueiras dissertation 2008 UMichigan

Central extensions of divisible groups, Jason Elliot dissertation 2011 UIllinois

Characterizations of zero divisor graphs determined by equivalence classes of zero divisors, Amanda Acosta thesis 2012 UMiss

The classification problem for finite rank dimension groups, Paul Ellis dissertation 2010 Rutgers

Classifying positive equivalence relations, Claudio Bernardi, Andrea Sorbi in J Symbolic Logic 1983 Italy

Entropy and sigma-algebra equivalence of random walks on random sceneries, Karen Ball dissertation 2002 UMaryland

Equivalence and duality for rank-metric and matrix codes, Katherine Morrison dissertation 2012 UNebraska

Ergodic theory of p-adic transformations, Joanna Furno dissertation 2013 UNorthCarolinaChapelHill

Fibrator properties of PL manifolds, Violeta Vasilevska disserta-

tion 2004 UTennessee

Fine bruhat intersections for reductive monoids, Dewey Taylor dissertation 2004 UNCRaleigh

Foliations, contact structures and finite group actions, Christopher Carlson dissertation 2012 UCRiverside

Fuzzy equivalence relations and their equivalence classes, Miroslav Ciric, Jelena Ignjatovic, Stojan Bogdanovic in Fuzzy Sets and Systems 2007

Generalized equivalence tranformations and group classification of systems of differential equations, Yu A Chirkunov in J Appl+Technical Phys 2012 Russia

Generating equivalence classes of b-stable ideals, Molly Fenn dissertation 2008 UMassAmherst

Infinite planar graphs, Eric Aurand dissertation 2000 UNTexas

An inquiry into number of isomorphism classes of boolean algebras and borel cardinality of certain borel equivalence relations, Michael Oliver dissertation 2003 UCLA

The intersection of some classical equivalence classes of matrices, Mark Mills dissertation 1999 IowaStateU

The lattice of equivalence classes of closed sets and the stone-cech compactification, Gerald Seaton dissertation 2003 NCStateRaleigh

Positive rational strong shift equivalence and the mapping class group of a shift of finite type, Sompong Chuysurichay dissertation 2011 UMaryland

Scales of function and matrix spaces, Alfred Dahma dissertation 2009 UPittsburgh

Singular cochains and rational homotopy type, Zviad Kharebava dissertation 2004 NCStateU

The study of translation equivalence on integer lattices, Charles Boykin dissertation 2003 UNorthTexas

Zero divisor graphs and poset decomposition, Bette Putnam Thesis 2011 UMiss

26.2.4 Morphisms

Generalization of linear morphisms on N in topoi, A I Chentsov, A I Provotar in Cybernetics and System Analysis 2005

p-harmonic morphisms, minimal foliations, and conformal deformations of metrics, Ye-Lin Ou Thesis 2005 UOklahom

Proper morphisms of topoi, Terence Wallace Lindgren dissertation 1984 RutgersU

Topology, morphisms, and randomness in the space of formal

languages, David Kephart dissertation 2005 USF

Visualizing regular tessellations, principal congruence links and equivariant morphisms from surfaces to 3-manifolds, Matthias Goerner dissertation 2011 UCBerkeley

26.2.5 Order

Aggregation and residuation, Bruno Leclerc, Bernard Monjardet in Order 2013

Antichain cutsets of strongly connected posets, Stephan Foldes, Russ Woodroofe in Order 2013 Finland St Louis MO

Antimatroids and balanced pairs, David Eppstein in Order 2013 UCIrvine

The arboreal jump number of an order, Adriana P. Figueiredo, Michel Habib, Sulamita Klein, Jayme Luiz Szwarcfiter in Order 2013 Brazil France

Associativity, commutativity and symmetry in residuated structures, Maria Emilia Della Stella, Cosimo Guido in Order 2013 Italy

Automorphism groups of countably categorical linear orders are extremely amenable, Francois Dorais, Steven Gubkin, Daniel McDonald, Manuel Rivera in Order 2013

Canonical extensions and profinite completions of semilattices

and lattices, M. J. Gouveia, H. A. Priestley in Order 2013 Portugal Oxford UK

Complementation in the lattice of locally convex topologies, Thomas A. Richmond in Order 2013 Kentucky

Counting maximal antichains and independent sets, L. Ilinca, J. Kahn in Order 2013 Indiana New Jersey

Differential posets have strict rank growth, a conjecture of stanley, Alexander Miller in Order 2013 Minneapolis

Finite three dimensional partial orders which are not sphere orders, Stefan Felsner, Peter Fishburn, William Trotter in Discrete Math Berlin New Jersey Arizona

A four for the price of one duality principle for distributive spaces, Dirk Hofmann in Order 2013 Aveiro Portugal

Generation and enumeration of some classes of interval orders, Disanto Pergola Pinzani Rinaldi in Order 2013 Siena Italy Firenze Italy

A genesis of interval orders and semiorders, transitive NaP-preferences, Alfio Gairlotta in Order 2013 Catania Italy

The h,k-equal partition lattice is EL-shellable when $h \geq k$, Eric Gottlieb in Order 2013 Rhodes in Memphis Tennessee

A hierarchy of chains embeddable into the lexicographic power

$(R^\omega, \prec_{lex})$, Alfio Gairlotta, Stephen Watson in Order 2013 Catania Italy York in Toronto Canada

Incidence posets and cover graphs, William T. Trotter, Ruidong Wang in Order 2013 Georigia Tech

Increasing selections from increasing multifunctions, Nikolai S. Kukushkin in Order 2013 Moscow

Kernels in weighted digraphs, Ron Aharoni, Eli Berger, Irina Gorelik in Order 2013 Haifa Israel

Lattice classification by cut-through coding, Qifu Tyler Sun, Shuo-Yen Robert Li in Order 2013 Shenzhen China Hong Kong

The lattice of semilattice ordered algebras, A. Pilitowska, A. Zamojska-Dzienio in Order 2013 Poland

Lattice-ordered matrix rings over totally ordered rings, Jingjing Ma, Yuehui Zhang in Order 2013 Texas China

Maximal condorcet domains, Vladimir Danilov, Gleb Koshevoy in Order 2013 Russia

A Method of representing rough sets system determined by quasi orders, Nagarajan Umadevi in Order 2013 Tamil Nadu in India

Monadic bounded residuated lattices, Jiri Rachunek, Dana Salounova in Order 2013 Czech Rep

MV-semirings and their sheaf representation, Lawrence Peter Belluce, Antonio Di Nola, Anna Rita Ferraioli in Order 2013 Canada Italy

New light on bergman complexes by decomposing matroid types, Martin Dlugosch in Order 2013 Bremen Germany

A note on the largest size of families of sets with a forbidden poset, Hong-Bin Chen, Wei-Tian Li in Order 2013 Taiwan

A note on ordinal DFAs, Stephen L. Bloom, Yi Di Zhang in Order 2013 New Jersey

The nucleolus is well-posed, Vito Fragnelli, Fioravante Patrone, Anna Torre in J Math Anal+Appl 2006 Italy

Numerical representation of semiorders, Asier Estevan, Javier Gutierrez Garcia, Esteban Indurain in Order 2013 Pamplona+Bilbao Spain

On the largest size of an antichain in the bruhat order for $\mathcal{A}(2k, k)$, Conflitti, da Fonseca, Mamede in Order 2013 Portugal

On the poset of computation rules for nonassociative calculus, Miguel Couceiro, Michel Grabisch in Order 2013 Luxembourg Paris

On-line chain partitions of up-growing semi-orders, Felsner Kloch Matecki Micek in Order 2013 Germany Poland

On-line dimension for posets excluding two long incomparable

chains, Stefan Felsner, Tomasz Krawczyk, William Trotter in Order 2013 Germany Poland USA

On-line dimension of semi-orders, Bartlomiej Bosek, Kamil Kloch, Tomasz Krawczyk, Piotr Micek in Order 2013 Poland

Optimal factorization of three-way binary data using triadic concepts, Radim Belohlavek, Cynthia Glodeanu, Vilem Vychodil in Order 2013 Czech Rep Germany

Output-polynomial enumeration of all fixed-cardinatlity ideals of a poset, respectively all fixed-cardinality subtrees of a tree, Marcel Wild in Order 2013 S Africa

Parametrized arity gap, Miguel Couceiro, Erkko Lehtonen, Tamas Waldhauser in Order 2013 Luxembourg Hungary

Partially well-ordered closed sets of permutations, M D Atkinson, M M Murphy, N Ruskuc in Order 2002 New Zealand UK

Prelinear algebras in relatively regular quasivarieties, C J van Alten in Order 2013 South Africa

Profile classes and partial well-order for permutations, Maximillian Murphy, Vincent Vatter in arXiv 2003 Scotland Rutgers

A Pseudocompact completely regular frame which is not spatial, Dube, Iliadis, van Mill, Naidoo in Order 2013 S Africa Moscow Amsterdam+Delft Netherlands

QFS-Domains and their lawson compactness, Gaolin Li, Luoshan Xu in Order 2013 China

Ranked highly-arc-transitive digraphs as colimits, Cong Chen in Order 2013 Leeds UK

Recognition of lattice-ordered matrix rings, Jingjing Ma in Order 2013 Houston TX

The relationship of partial metric varieties and commuting powers varieties, Michael Darnel, W Charles Holland, Homeira Pajoohesh in Order 2013 IN CO NY

The representation polyhedron of a semiorder, Barry Balof, Jean-Paul Doignon, Smauel Fiorini in Order 2013 WA Belgium

Semi-heyting algebras term-equivalent to godel algebras, Manuel Abad, Juan Manuel Cornejo, Jose Patricio Diaz Varela in Order 2013 Bahia Blanca Argentina

Sheaves of abelian l-groups, Niels Schwartz in Order 2013 Passau Germany

Slim semimodular lattices II, a description by patchwork systems, Gabor Czedli, E. Tamas Schmidt in Order 2013 Szeged+Budapest Hungary

Suslin lattices, Dilip Raghavan, Teruyuki Yorioka in Order 2013 Kobe+Shizuoka Japan

Unification and projectivity in de morgan and kleene algebras, Simone Bova, Leonardo Cabrer in Order 2013 Austria Switzerland

Upper maximal graphs of posets, Yusuf Civan in Order 2013 Isparta Turkey

Varieties generated by standard BL-algebras, Zuzana Hanikova in Order 2013 Czech Rep

Varieties of lattices with geometric descriptions, Luigi Santocannale, Friedrich Wehrung in Order 2013 France

26.2.6 Pogroups (Partially Ordered Groups)

Abel's summation formula in partially ordered groups, Walden Freedman in Topology+its Appl 2012 Humboldt CA

Adjoint functors, projectivization, and differentiation algorithms for representations of partially ordered sets, Mark Kleiner, Markus Reitenbach in J Algebr 2012 Syracuse NY Colorado

A characterization of the dedekind completion of a totally ordered group of infinite rank, E. Olivos, H. Soto, A. Mansilla in Indag. Math. 2008 Temuco Chile

A classification of finite rank dimension groups by their representations in ordered real vector spaces, Gregory Maloney, Aaron Tikuisis in J Functional Analysis 2011 Boston Toronto

Cohomology of partially ordered sets and local cohomology of section rings, Morten Brun, Winfried Bruns, Tim Romer in Advances in Math 2007 Norway Germany

The computable dimension of ordered abelian groups, Sergey Goncharov, Steffen Lempp, Reed Solomon in Advances in Math 2003 Russia Wisconsin Connecticut

Constructive completions of ordered sets, groups, and fields, Erik Palmgren 2005 in Annals Pure+Appl Logic Uppsala Sweden

Coupled coincidence point results for compatible mappings in partially ordered fuzzy metric spaces, Choudhury, Das, Das in Fuzzy Sets+Sys 2013 West Bengal India

Extending monotone seminorms on partially ordered vector spaces, Onno van Gaans in Indga Mathem 1998 Netherlands

Finitely presented lattice-ordered abelian groups with order-unit, Leonardo Cabrer, Daniele Mundici in J Algebr 2011 Tandil Argentina Firenze Italy

Free abelian lattice-ordered groups, A.M.W. Glass, Angus Macintyre, Francoise Point in Annals Pure+Appl Logic 2005 Cambridge Edinburgh UK Belgium

Fuzzy partially ordered fuzzy subgroups, Bhakat Das in Fuzzy Sets+Sys 1994 West Bengal India

Lattice fully orderable groups, N. Ya. Medvedev in Algebra+Logic 2001

MTL-algebras arising from partially ordered groups, Thomas Vetterlein in Fuzzy Sets+Sys 2010 Wien Austria

Right orders and amalgamation for lattice-ordered groups, Bludov Glass in Math Slovaca 2011

Sublattice subgroups of finitely presented lattice-ordered groups, A M W Glass in J Algebr 2006 Cambridge UK

26.2.7 Polytopes

All regular polytopes are ramsey, Kristal Cantwell in J Comb Theory 2007 California

Barycentric coordinates for polytopes, Eugene Wachspress in Comp+Math with Appl 2011 New Jersey

Families of polytopal digraphs that do not satisfy the shelling property, David Avis, Hiroyuki Miyata, Sonoko Moriyama in Computational Geometry Japan Canada

The intersection condition for regular polytopes, Marston Conder, Deborah Oliveros in J Comb Theory 2013 New Zealand Mexico

On subdivision posets of cyclic polytopes, Paul Edelman, Jorg Rambau in Europ J Comb 2000 Minnesota

Polytopes of high rank for the symmetric groups, Maria Elisa Fernandes, Dimitri Leemans in Adv in Math 2011 Portugal Belgium

The smallest regular polytopes of given rank, Marston Conder in Adv in Math 2013 New Zealand

Speeding up IP-based algorithms for constrained quadratic 0-1 optimization, Buchheim, Liers, Oswald in Math Program B 2010 Germany

26.2.8 Posets (Partially Ordered Sets)

Association schemes of small order, Kyoungah See, Sung Y. Song in J Stat Plan+Infer 1998 Ohio Iowa

A characterization of moral transitive acyclic directed graph markov models as labeled trees, Robert Castelo, Arno Siebes in J Stat Plan+Infer 2003 Utrecht Netherlands

Complements of sphere and subspace arrangments, Ken Jewell in Topology+its Appl 1994 Madison WI

Computing the bounded subcomplex of an unbounded polyhedron, Sven Herrmann, Michael Joswig, Marc E. Pfetsch in Computational Geom Theory+Appl 2013 UK Germany

Crowns, cutsets, and valuable partial orders, David G. Wagner in Order 1996 Canada

D-homomorphisms and atomic sigma-complete boolean D-posets, A Dvurecenskij, F Chovanec, E Rybarikova in Soft Computing 2000

Decompositions of categories over posets and cohomology of categories, Jolanta Slominska in manuscripta math 2001

Differential posets have strict rank growth, a conjecture of stanley, Alexander R. Miller in Order 2013

The dimension of planar posets, William T. Trotter Jr., John I. Moore Jr. 1974 in J. Combinatorial Theory 1977 South Carolina

A dynkin diagram classification theorem arising from a combinatorial problem, Robert A. Proctor in Advances in Math 1986 UCLA

Enumeration of graded (3+1)-avoiding posets, Joel Brewster Lewis, Yan X. Zhang in J. Comb Theory A 2013 Minnesota MN Cambridge MA

Extending a partially ordered set, links w its lattice of ideals, Baldy Morvan in Order 1999

Flags and shellings of eulerian cubical posets, Richard Ehrenborg, Gabor Hetyei in Annals of Combinatorics 2000

Fuzzy pogroupoids, Hee Sik Kin, J Neggers in Information Sciences 2005 Seoul S Korea Alabama

Generalized (S,I)-complete free completely distributive lattices

generated by posets, Yongming Li M. Mislove in Semigroup Forum 1998

Hopf algebras and edge-labeled posets, Nantel Bergeron Frank Sottile in J. Algebra 1999 York in Toronto Ontario Madison WI

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27 ADVANCED CALCULUS

27.1 Advanced Caclulus, Books and Longer Works

27.1.1 Hilbert Spaces

Convex Analysis and Monotone Operator Theory in Hilbert Spaces, Heinz H Bauschke, Patrick L Combettes 2011 Springer

A glimpse at hilbert space operators in mem Paul R Halmos, Sheldon Axler, Peter Rosenthal, Donald Sarason eds 2010 Springer

Harmonic Analysis of Operators on Hilbert Space, Bela Sz Nagy, Ciprian Foias, Hari Bercovici, Laszio Kerchy 2010 Springer

Hilbert Space Operators in Quantum Physics, Jiri Blank, Pavel Exner, Miloslav Havlicek 2008 Springer

Iterative Methods for Fixed Point Problems in Hilbert Spaces, Andrzej Cegielski 2012 Springer

On measurably indexed families of hilbert spaces, Michael Albert Wendt dissertation 1992 DalhousieU Canada

Recent Advances in Operator Theory in Hilbert and Krein Spaces, Jussi Behrndt, Karl-Heinz Forster, Carsten Trunk eds 2010 Springer

Unbounded Self adjoint operators on Hilbert space, Konrad Schmudgen 2012 Springer

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4-Manifolds and Kirby Calculus, Andras I Stipsicz, Robert E Gompf AMS

Absolute Measurable Spaces, Togo Nishiura

Abstract Set Theory, Abraham Fraenkel

An adaptive level set method, Roger Brent Milne PhD dissertation 1995 UCBERKELEY

Advanced Calculus A Geometric View, James Callahan 2010

Advanced Calculus Demystified, Bachman

Advanced Calculus, Patrick Fitzpatrick

Advanced Real Analysis, Anthony Knapp 2005

Analysis by Its History, Hairer Wanner 2008

Analysis for Applied Mathematics, Elliott Ward Cheney 2001 Springer

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Applied Analysis, John Hunter, B Nachtergaele

Basic Real Analysis, Anthony Knapp 2005

Calculus of Variations, Jost Li-Jost

Calculus On Manifolds, Michael Spivak 1965

The Cauchy Problem, Fattorini

Classical and Theoretical Math, Catherine Cavagnaro, William T Haight II

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Constructive aspects of functional analysis, Geymonat ed 1971 Italy Springer

A Course in Calculus and Real Analysis, Sudhir Ghorpade, Balmohan Limaye 2006

A Course in Multivariable Calculus and Analysis, Sudhir Ghorpade, Balmohan Limaye 2010

Dictionary of Analysis, Calculus, and Differential Equations, Douglas N Clark

Elementary Analysis, The Theory of Calculus, Kenneth A. Ross 2013

Elements of the Theory of Functions and Functional Analysis Vol 1 Metric and Normed Spaces, Kolmogorov Fomin 1957

Elements of the Theory of Functions and Functional Analysis Vol 2 Measure, Lebesque Integral, Hilbert Space, Kolmogorov Fomin 1961

Foundations of Real and Abstract Analysis, Bridges 1998

Functional Analysis in Asymmetric Normed Spaces, Stefan Cobzas 2013 Springer

Functional Analysis, Rudin

Generalized convexity and related topics, Igor Konnov, Dinh The Luc, Alexander Rubinov 2007 Russia France Australia Springer

The geometry of infinite-dimensional groups, Boris Khesin, Robert Wendt 2009 Springer

Group invariant stable processes, Slawomir Kolodynski dissertation 2000 UTenn

Handbook of Analysis and Its Foundations, Eric Schechter 1997 Academic Press

Handbook of Continued Fractions for Special Function, A Cuyt, V Brevik Petersen, B Verdonk, H Waadeland, W B Jones 2008 Springer

Handbook of Set Theory vol 2, Matthew Foreman, Akihiro Kanamori ed 2011 Springer

A Handbook of Terms Used in Algebra and Analysis, Howson 1972

Integral Transform Techniques for Green's Function, Kazumi Watanabe 2014 Springer YamagataU in Yonezawa in Japan

Introduction to Mathematical Analysis, Igor Kriz, Ales Pultr 2013

An introduction to Riemann surfaces, Terrence Napier, Mohan Ramachandran 2011 Springer

Introduction to Stokes Structures, Claude Sabbah 2013 Springer

Lyapunov-type Inequalities with Applications to Eigenvalue Problems, Juan Pablo Pinasco 2013 Springer

Mathematical Analysis, Apostol 1974

Mathematical Analysis I, Claudio Canuto, Anita Tabacco 2008

Mathematical Analysis, An Introduction to Functions of Several Variables, Mariano Giaquinta Giuseppe Modica 2009

Mathematical Analysis, Linear and Metric Structures and Continuity, Mariano Giaquinta, Giuseppe Modica 2007

Mathematical Logic, Ebbinghaus Flum Thomas 1984

Measure, Integral, Derivative, A Course on Lebesgue's Theory, Sergei Ovchinnikov 2013

Milnor Fiber Boundary of a Non-Isolated Surface Singularity,

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Naive set theory, Halmos

Offbeat Integral Geometry on Symmetric Spaces, Valery V Volchkov, Vitaly V Volchkov 2013 Springer

Operator algebras, Ola Bratteli, Sergey Neshveyev, Christian Skau eds The Abel Symposium 2004 2006 Springer

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A Problem Book in Real Analysis, Asuman Aksoy Mohamed Khamsi 2010

Problems in Real Analysis, Advanced Calculus on the Real Axis, Radulescu Radulescu Andreescu 2009

Real Analysis and Applications, Theory in Practice, Kenneth Davidson Allan Donsig 2010

Real Analysis, Halsey Royden

Real Analysis, Measures, Integrals and Applications, Boris Makarov Anatolii Podkorytov 2013

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Regularity Properties of Functional Equations in Several Variables, Jarai

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A short course on Banach space theory, N L Carothers

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Space Filling Curves, An Introduction with Applications in Scientific Computing, Michael Bader 2013 Springer

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The structure of the real line, Lev Bukovsky 2011 Springer

Topics in Measure Theory and Real Analysis, A B Kharazishvili 2009 Atlantis

Types over banach spaces, Markus Pomper dissertation 2000 UIllinois

Understanding Analysis with Solutions, Stephen Abbott

Variational, Topological, and Partial Order Methods with Their Applications, Zhitao Zhang 2013 Springer

Vector-valued Laplace Transforms and Cauchy Problems, Wolfgang Arendt, Charles J K Batty, Mathias Hieber, Frank Neubrander 2011 Springer

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Volume of Convex Bodies and Banach Space Geometry, Pisier

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Prob+Math Statist 2004

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An almost sure invariance principle for hilbert space valued martingales, by Gregory Morrow, Walter Philipp in Trans Amer Math Soc 1982

Almost sure stability of partial sums of uniformly bounded random variables, Theodore Hill in Proc Amer Math Soc 1983

Convergence of series of scalar- and vector-valued random variables and a subsequence principle in L^2, S J Dilworth in Trans Amer Math Soc 1987

The convex hull of a sample, Lloyd Fisher 1965 in Amer Math Soc

An extension of skorhod's almost sure representation theorem, David Blackwell, Lester E Dubins in Proc Amer Math Soc 1983

The lebesgue integral as the almost sure limit of random riemann sums, John Kieffer, Caslav Stanojevic in Proc Amer Math Soc 1982

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An almost sure invariance principle for stationary ergodic sequences of banach space valued random variables, Erich Berger in Probab Th Rel Fields 1990 Gottingen Germany

Borel superrigidity for actions of low rank lattices, Scott Schneider dissertation 2009 Rutgers

In search of a lebesgue density theorem for R^∞, Verne Cazaubon dissertation 2008 UOttowa

A multiplicative ergodic theorem for random transformations, Yuri Kifer in J d'Analyse Mathematique 1985 Israel

*A non-commutative *-algebra of borel functions*, Robert Hart dissertation 2012 UOttowa

A ratio ergodic theorem on borel actions of Z^d and R^d Eric Holt dissertation 2009 Colorado StateU

Recursion theory and countable borel equivalence relations, Andrew Scott Marks dissertation 2012 UCBerkeley

The gauge integral and its relationship to the lebesgue integral, Timothy Ira Myers dissertation 2007 Morgan StateU

A wiener-wintner double recurrence theorem, David Malcolm Duncan dissertation 2001 UNorth Carolina

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The inheritance of BDE-property in sharply dominating lattice effect algebras and (o)-continuous states, Jan Paseka, Zdenka Riecanova in Soft Comput 2011 Czech Rep Slovak Rep

Kotani-Last problem and hardy spaces on surfaces of widom type, A Volberg, P Yuditskii in Invent math 2013 MichiganStateU Inst Analysis Johannes Kepler U Linz in Austria

Lipschitz minorants of brownian motion and levy processes, Joshua Abramson, Steven N Evans in Probab Theory Relat Fields 2013 UCBerkeley

A new method for generating families of continous distributions, Ayman Alzaatreh, Carl Lee, Felix Famoye in Metron 2013 Sapienza U di Roma

On the convolution of roumieu ultradistributions through the epsilon tensor product, Stevan Pilipovic, Bojan Prangoski in Monatsh Math 2014 Serbia Macedonia

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Diffusion phenomenon in hilbert spaces and applications, Petronela Radu, Grozdena Todorova, Borislav Yordanov in J Diff Eq 2011 UNLincoln UTKnoxville

Energy decay for differential inequalities in a hilbert space with applications to ultrahyperbolic equations, Hajimu Ogawa in J Diff Eq 1980 SUNYAlbany

An equipartition of energy theorem for weak solutions of evolutionary equations in hilbert sapce, the lagrange identity method, Howard A Levine in J Diff Eq 1977 URhodeIsland

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Comments on the Meshless Helmoltz-Hodge Decomposition, Harsh Bhatia, Gregory Norgard, Valerio Pascucci, Peer-Timo Bremer in IEEE Trans on Visualization+Comp Graphics 2013

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Discrete hodge theory on graphs, a tutorial, James Johnson, Tom Goldring in IEEE Computing in Sci+Engr 2013

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Fast discrete helmholtz-hodge decompositions in bounded domains, Philippe Angot, Jean-Paul Caltagirone, Pierre Fabrie in Appl Math Lett 2013 France

Hodge type theorems for aithmetic manifolds associated to orthogonal groups, Nicolas Bergeron, John Millson, Colette Moeglin in arXiv 2012

Hodge's harmonic p-sets and pontrjagin classes, Jonathan Fine in arXiv 1998

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Meshless helmholtz-hodge decomposition, Fabiano Petronetto, Afonso Paiva, Marcos Lage, Geovan Tavares, Helio Lopes, Thomas Lewin in IEEE Trans on Vis+CGI 2010

Mixed Hodge Structures, Chris Peters, Joseph Steenbrink 2008 Springer

Nonlinear Hodge theory on manifolds with boundary, T Iwaniec, C Scott, B Stroffolini Annali di Mat 1999 USA Italy

Remark on the helmholtz decomposition in domains with non-compact boundary, Yasunori Maekawa Hideyuki Miura in arXiv 2013

Stability of hodge decompositions in finite element spaces of differential forms in arbitrary dimension, Snorre Christiansen in Numer Math 2007

Statistical ranking and combinatorial hodge theory, Xiaoye Jiang, Lek-Heng Lim, Yuan Yao, Yinyu Ye in arXiv 2009 Stanford UCBerkeley

The topology of helmholtz domains, R Benedetti, R Frigerio, R Ghiloni in Expositiones Math 2012 Italy

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Conformal capacities and conformally invariant functions on riemannian manifolds, Jacqueline Ferrand in Geometriae Dedicata 1996 France

Conformal invariants and quasiregular mappings, Matti Vuorinen J d'Analyse Math 1985 Finland

Conformal invariants measuring the best constants for gagliardo-nirenberg-sobolev inequalities, Jeffrey S Case in Calc Var 2013

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Connected sums and the infimum of the yamabe functional, Olga Gil-Medrano in Differential Geometry Peniscola 1985 1986 Valencia in Spain

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Estimation of the conformal factor under bounded willmore energy, Reiner Michael Schatzle in Math Z 2013 Freiburg Tubingen

The Infimum of the energy of unit vector fields on odd-dimensional spheres, Vincent Borrelli, Fabiano Brito, Olga Gil-Medrano in Annals of Global Anal+Geom 2003 France Brazil Spain

Minimal immersions of surfaces by the first eigenfuncitons and conformal area, Sebastian Montiel, Antonio Ros in Inventiones mathematique 1986 Granada Spain

A multifractal analysis of equilibrium measures for conformal expanding maps and moran-like geometric constructions, Yakov Pesin, Howard Weiss in J Stat Phys 1997 PennState

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On conformal capacity and teichmuller's modulus problem in space, Dimitrios Betsakos in J d'Analyse Math 1999

On the conformal type of a riemannian manifold, V A Zorich, V M Kesel'man in Functional Anal+its Appl (AMS) 1996 Moscow

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A variational proof for the existence of a conformal metric with preassigned negative gaussian curvature for compact riemann surfaces of genus > 1, Rukmini Dey in Proc Indian Acad Sci Math 2001 India

27.2.7 Lebesgue

A combinatorial problem on translation-invariant extensions of the lebesgue measure, A B Kharazishvili in Expositiones Mathemat-

icae 2011 Tbilisi in Georgia

Discontinuous maps exhibiting symmetry lebesgue-almost everywhere, Miguel Angelo de Sousa Mendes in Dyn Sys 2006 Porto

Fuzzy-valued mappings with finite variation, fuzzy-valued measures and fuzzy-valued lebesgue-stieltjes integrals, Yuhu Feng in Fuzzy Sets+Sys 2001 China

In search of a lebesgue density theorem for R^∞, Verne Cazaubon PhD dissertation 2008 UOTTOWA

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Mechanical-statistical modeling in ecology, from outbreak detections to pest dynamics, S Soubeyrand, S Neuvonen, A Penttinen in Bull Math Biol 2009 France Finland

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Meta-analytic insights into evolutionary ecology, an introduction and synthesis, Shinichi Nakagawa, Robert Poulin in Evol Ecol 2012 NewZealand

A method for numerical analysis of a lotka-volterra food web model, Seth Armstrong, Jianlong Han in Intl J of Numer Anal and Modeling B 2012 SouthernUtahU

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On hybrid competitive lotka-volterra ecosystems, C Zhu, G Yin in Nonlinear Analysis 2009 UWisconsin Detroit

On the evolutionary selection of sets of Nash equilibria, Dieter Balkenborg, Karl H Schlag in J Econ Theory 2007 UK Italy

On the maintenance of bird song dialects, Robert Planque, Nicholas F Britton, Hans Slabbekoorn in J Math Biol 2013 Netherlands UK

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An optimal strategy for energy allocation in a multiple resource environment, D Brian Walton, Benjamin P Leard, Anthony Tongen in Bull Math Biol 2010 Virginia CornellU

Optimization of virotherapy for cancer, Matt Biesecker, Jung-Han Kimn, Huitian Lu, David Dingli, Zeljko Bajzer in Bull Math Biol 2010 SouthDakotaState Rochester

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Reduced models of algae growth, Heikki Haario, Leonid Kalachev, Marko Laine in Bull Math Biol 2009 Finland UMontana

Refined best reply correspondence and dynamics, Dieter Balkenborg, Josef Hofbauer, Christoph Kuzmics in Theor Econ 2013 UK Austria Germany

Relative nonlinearity and permanence, Yun Kang, Peter Chesson in Theoretical Population Bio 2010 ArizonaStateU UArizona

The replicator dynamics with n players and population structure, Matthijs van Veelen in J Theoretical Biology 2011 Netherlands

The replicator equation on graphs, Hisashi Ohtsuki, Martin A Nowak in J Theoretical Biology 2006 Japan Harvard

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Robust permanence for interacting structured populations, Josef Hofbauer, Sebastian J Schreiber in J Diff Eq 2009 Austria UCDavis

Role of intraspecific competition in the coexistence of mobile populations in spatially extended ecosystems, Rui Yang, Wen-Xu Wang, Ying-Cheng Lai, Celso Grebogi in Chaos 2010 ArizonaStateU UK

The role of life cycle and migration in selection for variance in offspring number, Max Shpak, Stephen R Proulx in Bull Math Biol 2007 UTexas IowaStateU

The roles of body size and phylogeny in fast and slow life histories, Jonathan M Jeschke, Hanna Kokko in Evol Ecol 2009 Finland Germany

Searching for spatial patterns in a pollinator-plant-herbivore mathematical model, Faustino Sanchez-Garduno, Victor F Brena-Medina in Bull Math Biol 2011 Mexico

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Signalling in a mutualistic interaction, Annkristin H Axen, Olof Leimar, Veronika Hoffman in Animal Behaviour 1996 Sweden

Small heterogeneity has large effects on synchronization of ecological oscillators, Eli E Goldwyn, Alan Hastings in Bull Math Biol 2009 UCDavis

Small mutation rate and evolutionarily stable strategies in infinite dimensional adaptive dynamics, Angel Calsina, Silvia Cuadrado in J Math Biol 2004 Spain

A software based simulation for cleaner production, a game between manufacturers and government, Rui Zhao, Gareth Neighbour, Michael McGuire, Pauline Deutz in J Loss Prevention in Process Indust 2012 UK

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Spatiotemporal dynamics of the epidemic transmission in a predator-prey system, Min Su, Cang Hui, Yan Yu Zhang, Zizhen Li in Bull Math Biol 2008 China SouthAfrica

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Stabilization of metapopulation cycles, toward a classification scheme, Refael Abta, Marcelo Schiffer, Avishag Ben-Ishay, Nadav M Shnerb in Theoretical Population Bio 2008 Israel

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Stable games and their dynamics, Josef Hofbauer, William H Sandholm in J Econ Theory 2009 Austria UWisconsin

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Stochastic evolutionary dynamics of bimatrix games, Hiasashi Ohtsuki in J Theoretical Biology 2010 Japan

A stochastic version of the eigen model, Fabio Musso in Bull Math Biol 2011 Spain

Stochasticity and time delays in evolutionary games, Jacek Miekisz, Sergiusz Wesolowski in Dyn Games Appl 2011 Poland

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Study of chaotic behavior in predator-prey interactions in a chemostat, Emad Ali, Mohammed Asif, AbdelHamid Ajbar in Ecological Modelling 2013 SaudiArabia

Survival of dominated strategies under evolutionary dynamics, Josef Hofbauer, William H Sandholm in Theor Econ 2011 Austria UWisconsin

Sustainable land use optimizaiton using boundary-based fast genetic algorithm, Kai Cao, Bo Huang, Shaowen Wang, Hui Lin in Computers, Environ, Urban Sys 2011 Hong Kong USA

A symbolic investigation of superspreaders, Chris McCaig, Mike

Begon, Rachel Norman, Carron Shankland in Bull Math Biol 2011 UK

Synthetic analyses of phenotypic selection in natural populations, lessons, limitations and future directions, Joel G Kingsolver, Sarah E Diamond, Adam M Siepielski, Stephanie M Carlson in Evol Ecol 2012 UNorthCarolinaChapelHill NorthCarolinaStateURaleigh UCSanDiego UCBerkeley

A systematic overview of harvesting-induced maturation evolution in predator-prey systems with three different life-history tradeoffs, M Bodin, A Brannstrom, U Dieckmann in Bull Math Biol 2012 Austria Sweden

Time averages, recurrence and transience in the stochastic replicator dynamics, Josef Hofbauer, Lorens A Imhof in The Annals of Appl Prob 2009 Austria Germany

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Uniform persistence of multispecies ecological competition predator-

pray [prey] system with Holling III type functional response, Li Zhan, Li Ling-xiao, Wang Ke in Appl Math J Chinese Univ 2008 China

Urban total ecological footprint forecasting by using radial basis function neural network, a case study of Wuhan city, China, X M Li, R B Xiao, S H Yuan, J An Chen, J X Zhou in Ecol Indicators 2009 China

Using successional theory to measure marine ecosystem health, Stuart A Sandin, Enric Sala in Evol Ecol 2012 California Spain WashingtonDC

What life cycle graphs can tell about the evolution of life histories, Claus Rueffler, Johan A J Metz, Tom J M Van Dooren in J Math Biol 2013 Austria Netherlands France

When does the variance of replicator fitness decrease?, Jozsef Garay in J Math Biol 2003 Hungary

Within-host virus models with periodic antiviral therapy, Patrick De Leenheer in Bull Math Biol 2009 UFlorida

32 COMPLEX VARIABLES

32.1 Complex Variables, Books and Longer Works

Basic Algebraic Geometry 2 Schemes and Complex Manifolds, Igor Shafarevich 2013 Springer

Complex Analysis, E M Stein, R Shakarchi 2003 Princeton Oxford

Complex Analysis, Joseph Bak, Donald J Newman 2010 Springer

Complex Analysis, an Intro to the Theory of Analytic Functions of One Complex Variable, Lars V Ahlfors 1979

Complex Variables and Applications, James Ward Brown, Ruel V Churchill 2003 McGraw Hill

Complex Variables, Mark J Ablowitz, Athanassios S Fokas 2003 Cambridge

The conjecture of birch and swinnerton-dyer for elliptic curves w complex multiplication by a nonmaximal order, Jason Colwell dissertation 2004 Caltech

A Course in Complex Analysis, From Basic Results to Advanced Topics, Wolfgang Fischer, Ingo Lieb 2012 Springer

Cycle Spaces of Flag Domains A Complex Geometric Viewpoint, Gregor Fels, Alan Huckleberry, Joseph A Wolf 2006 Springer

Excursions in Harmonic Analysis, Volume 1, Travis Andrews, Radu Balan, John Benedetto, Wojciech Czaja , Kasso Okoudjou eds 2013 Springer

Excursions in Harmonic Analysis, Volume 2, Travis Andrews, Radu Balan, John Benedetto, Wojciech Czaja , Kasso Okoudjou eds 2013 Springer

Explorations in Harmonic Analysis with Applications to Complex Function Theory and the Heisenberg Group, Steven G Krantz 2009 Springer

A First Course in Harmonic Analysis, Anton Deitmar 2005 Springer

Fractal Geometry Complex Dimensions and Zeta Functions Geometry and Spectra of Fractal Strings, Michel L Lapidus, Machiel van Frankenhuijsen 2006 Springer

Fractals and Universal Spaces, Stephen Leon Lipscomb 2009 Springer

Functions of One Complex Variable II, John B Conway 1995 Springer

Fundamentals of Complex Analysis, Edward Saff, Arthur David Snider 2003 Pearson

Geometrical dynamics of complex systems, Vladimir G Ivancevic, Tiijana T Ivancevic 2006 Springer

Harmonic analysis of two problems in signal quantization and

compression, Cemalettin Sinan Gunturk dissertation 2000 Princeton

Harmonic and Complex Analysis and its Applications, Alexander Vasil'ev ed 2014 Springer

Holomorphic Function Theory in Several Variables, An Introduction, Christine Laurent-Thiebaut 2011 Springer

Holomorphic Functions in the Plane and n-dimensional Space, Klaus Gurlebeck, Klaus Habetha, Wolfgang Sprosig 2008 Springer

Invariant Factors, Julia Equivalences and the (Abstract) Mandelbrot Set, Karsten Keller 2000 Springer

Lectures on Complex Integration, Alexander O Gogolin 2014 Springer

Nonlinear and Complex Dynamics, Applications in Physical, Biological, and Financial Systems, Jose Antonio Tenreiro Machado, Dumitru Baleanu, Albert C J Luo 2011 Springer

Overconvergence in Complex Approximation, Sorin G Gal 2013 Springer

Real and Complex Analysis, W Rudin 1970 McGraw-Hill

A Tale of Two Fractals, A A Kirillov 2013 Springer

Visual Complex Functions, An introduction with Phase Portraits, Elias Wegert 2012 Springer

32.2 Complex Variables, Papers and Shorter Works

Asymptotics for hessenberg matrices for the bergman shift operator on jordan regions, Edward B Saff, Nikos Stylianopoulos in Complex Analysis Oper Theor 2014 VanderbiltU Cyprus

Complex algebraic geometry brouwer lecture, Griffiths 2008 Princeton

Complex vector bundles and jacobi forms, V Gritsenko in arXiv 1999 France

Conical plurisubharmonic measure and new cross theorems, Viet-Anh Nguyen in J Math Analysis Appl 2010 Vietnam

Cuntz-krieger algebras and wavelets on fractals, Matilde Marcolli, Anna Maria Paolucci in Complex Anal Oper Theor 2011 Caltech Germany

Deformations and transversality of pseudo-holomorphic discs, Alexandre Sukhov, Alexander Tumanov in J d'Analyse Math 2012 France UIllinois

Difference operators of sklyanin and van diejen type, Eric Rains, Simon Ruijsenaars in Commun Math Phys 2013 Caltech ULeeds

Divergent CR-equivalences and meromorphic differential equations I, Kossoviskiy, R Shafikov in arXiv 2013 Austria Canada

Duality and the abel map for complex supercurves, Jeffrey Rabin in Geom methods in Phys 2013 UCSanDiego

Dynamics of automorphisms on compact kahler manifolds, Henry De Thelin, Tien-Cuong Dinh in Adv in Math 2012 France

Dynamics of horizontal-like maps in higher dimension, Tien-Cuong Dinh, Viet-Anh Nguyen, Nessim Sibony in Adv in Math 2008 France Italy

Enriques surfaces, analytic discriminants, and borcherds's Φ *function*, Jay Jorgenson, Andrey Todorov in Commun Math Phys 1998 Princeton UCSantaCruz Bulgaria

Exotic baker and wandering domains for ahlfors islands maps, Lasse Rempe, Philip Rippon in Journal d'Analyse Mathematique 2012 UK

An explicit solution to the dirichlet problem with rational holomorphic data in terms of a riemann mapping, Peter Ebenfelt, Michael Viscardi in Comput Methods+Function Theor 2007 UCSanDiego

Families of periodic orbits of the koch snowflake fractal billiard, Michel Lapidus, Robert Niemeyer in arXiv 2011 UCRiverside

The fibered isomorphism conjecture for complex manifolds, Roushon in Acta Math Sinica 2007 India

The generalized schwarz-pick estimates of arbitrary order on the unit polydisk, Jianfei Wang, Yang Liu in Complex Analysis Oper Theory 2013 China

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Geometry of dual pairs of complex supercurves, Jeffrey Rabin in Supersymmetry in Math+Phys 2011 UCSanDiego

Isometry gorup of sasaki-einstein metric, Weiyong He in C R Acad Sci Paris Ser I Article In Press UOregon

The large time asymptotics of the entropy, Lei Ni in Complex Analysis 2010 UCSanDiego

Linear forms and quadratic uniformity for functions on Z_N, W T Gowers, J Wolf in J d'Analyse Math 2011 Cambridge Rutgers

Meromorphic extensions from small families of circles and holomorphic extensions from spheres, Josip Globevnik in Trans Amer Math Soc 2012 Slovenia

The mixed cauchy problem for holomorphic partial differential operators, Peter Ebenfelt, Harold Shapiro in J d'Analyse Math 1995 Sweden

Moduli of continuity and a hardy-littlewood theorem, Craig Nolder, Daniel Oberlin in Complex Analysis ed Joensuu 1987 FSU

New constructions of fundamental polyhedra in complex hyperbolic space, Martin Deraux, Elisha Falbel, Julien Paupert in Acta Math 2005 France

Noise perturbed generalized mandelbrot sets, Wang Xingyuan, Wang Zhen, Lang Yahui, Zhang Zhenfeng in J Math Analysis Appl 2008 China

Normal families and linear differential equations, Norbert Steinmetz in Journal D'Analyse Mathematique 2012 Germany

On point to point reflection of harmonic functions across real-analytic hypersurfaces in $\mathbb{R}^n$, Peter Ebenfelt, Dmitry Khavinson in J d'Analyse Math 1996 Sweden UCSanDiego UArkansas

On the convergence rate of the euler-alpha, an inviscid second-grade complex fluid, model to the euler equations, Jasmine Linshiz, Edriss Titi in J Stat Phys 2010 Israel

On the existence and regularity of dirichlet problem for complex monge-ampere equations on weakly pseudoconvex domains, Song-Ying Li in Calc Var 2004 UCIrvine

On the fourier coefficients of meromorphic jacobi forms, Rene Olivetto in arXiv 2012 Germany

On the holomorphicity of proper harmonic maps between unit balls with the bergman metrics, Song-Ying Li, Lei Ni in Mathematische Annalen 2000 UCIrvine

On the rigidity theorem for harmonic functions in kahler metric of bergman type, Li Song-Ying, Wei DongHuan in Science China Math 2010 UCIrvine China

On the solution of the dirichlet problem with rational holomorphic boundary data, Peter Ebenfelt, Michael Viscardi in Comput Method and Function Theor 2005 UCSanDiego

On total reality of meromorphic functions, Alex Degtyarev, Torsten Ededahl, Ilia Itenberg, Boris Shapiro, Michael Shapiro in arXiv 2006 MichiganState

The order of contact of a holomorphic ideal in C^2, Jeffery McNeal, Andras Nemethi in Mathematische Zeitschrift 2005 OhioState

Projection on segre varieties and determination of holomorphic mappings between real submanifolds, M S Baouendi, Peter Ebenfelt, Linda P Rothschild in Science in China A 2006 UCSandiego

Purely real surfaces in non-flat complex space forms satisfying a basic equality, Chen Mihai Mihai in Results in Mathematics 2009 MichiganStateU Romania

Regularity of dynamical green's functions, Jeffrey Diller, Vincent Guedj in Trans Amer Math Soc 2009 NotreDame France

Semigroups versus evolution families in the loewner theory, Filippo Bracci, Manuel Contreras, Santiago Diaz-Madrigal in J d'Analyse Math 2011 Italy Spain

Shellability properties on planar graded posets and higher order complexes, Ilirjan Cane 2006 WesleyanU

Singular hermitian-einstein monopole on the product of a circle and a riemann surface, Benoit Charbonneau, Jacques Hurtubise in Intl Math Resarch Notices 2010 McGill

Some dynamical properties of pseudo-automorphisms in dimension 3, Tuyen Trung Truong in arXiv 2013 SyracuseU

Some dynamical properties of transcendental meromorphic functions, Qiu Ling in J Math Analysis+Appl 2007 China

Spherical derivatives and normal families, Jugen Grahl, Shahar Nevo in Journal D'Analyse Mathematique 2012 Germany Israel

Super-potentials of positive closed currents, intersection theory and dynamics, Tien-Cuong Dinh, Nessim Sibony in arXiv 2008 France

Thin sets of integers in harmonic analysis and p-stable random fourier series, P Lefevre, D Li, H Queffelec, L Rodriguez-Piazza in J d'Analyse Math 2011 France Spain

Topological dynamics, Ethan Akin in Mathematics of Complexity and Dynamical Systems 2011 CityCollege in New York

Totally geodesic submanifolds of the complex and the quaternionic 2-grassmannians, Sebastian Klein in Trans Amer Math Soc

2009 Ireland

Two-phase quadrature domains, Stephen Gardiner, Tomas Sjodin in J d'Analyse Math 2012 Ireland Sweden

Uniform geometric estimates of sublevel sets, Philip Gressman in J d'Analyse Math 2011 UPenn

Uniqueness and value distribution of differences of entire functions, Xiaoguang Zi, Kai Liu in J Math Analysis+Appl 2011 China Finland

Univalent harmonic mappings with integer or half-integer coefficients, S Ponnusamy, J Qiao in arXiv 2012 India China

Weighted integrability of polyharmonic functions, Alexander Borichev, Haakan Heidenmalm in arXiv 2012 France Sweden

33 COMPLEXITY, COMPUTATION, and COMPUTER SCIENCE

33.1 Complexity, Computation, and Computer Science, Books and Longer Works

Analytic Tomography, Andrew Markoe 2006 Cambridge

Computational Vision and Medial Image Processing, Recent Trends, Joao Manuel R S Tavares, R M Natal Jorge eds 2011 Springer

Entropy and Information Theory, Robert M Gray 2011 Springer

Logical foundations of mathematics and computational complexity, a gentle introduction, Pavel Pudlak 2013 Springer

Recent Advances in Computation and Applied Mathematics, T E Simos ed 2011 Springer

Short Course in Quantum Information, An Approach from Theoretical Physics, Diósi 2007 Springer

Theory and Applications of Models of Computation, Jin-Yi Cai, S Barry Cooper, Hong Zhu eds 2007 Springer

33.2 Complexity, Computation, and Computer Science, Papers and Shorter Works

33.2.1 Image

A class of quasi-variational inequalities for adaptive image denoising and decomposition, Frank Lenzen, Florian Becker, Jan Lellmann, Stefania Petra, Christoph Schnorr in Comput Optim Appl 2013 Germany

A cyclic projected gradient method, Simon Setzer, Gabriel Steidl, Jan Morgenthaler in Comput Optim Appl 2013 Germany

An iterative algorithm for sparse and constrained recovery with applications to divergence-free current reconstructions in magnetoencephalography, Ignace Loris, Caroline Verhoeven in Comput Optim Appl 2013 Belgium

Bregman operator splitting with variable stepsize for total variation image reconstruction, Yunmei Chen, William W Hager, Maryam Yashtini, Xiojing Ye, Hongchao Zhang in Comput Optim Appl 2013 UFlorida GeorgiaTech LouisianaStateU

Linear convergence analysis of the use of gradient projection methods on total variation problems, Pengwen Chen, Changfeng Gui in Comput Optim Appl 2013 Taiwan USA China

Preconditioned iterative regularization in banach spaces, Paola Brianzi, Fabio Di Benedetto, Claudio Estatico in Comput Optim Appl 2013 Italy

Primal and dual alternating direction algorithms for $\ell_1-\ell_1$-norm minimization problems in compressive sensing, Yunhai Xiao, Hong Zhu, Soon-Yi Wu in Comput Optim Appl 2013 China Taiwan

33.2.2 Various Complexity, Computation, and Computer Science

A computational model for multi-variable differential calculus, Abbas Edalat, Andre Lieutier, Dirk Pattinson in Info and Computation 2013 London France

∂ for data, differentiating data structures, Michael Abbott, Thorsten Altenkirch, Conor McBride, Neil Ghani in Fundamenta Informaticae 2005 UK

Dynamics of complexity of intersections, V I Arnold in Boletim da sociedad brasileira de matematica 1990 Moscow

Evolutionary algorithms for quantum computers, Daniel Johannsen, Piyush P Kurur, Johannes Lengler in Algorithmica 2014 Israel India Switzerland

Fluid models of many-server queues with abandonment, Jiheng Zhang in Queueing Syst 2013 Hong Kong

The generation of optimized codes using nonzero structure analysis, Bret Marsolf, Aart Bik, Kyle Gallivan, Harry Wijshoff IL IN FSU Netherlands

The NOF multiparity communication complexity of composed

functions, Anil Ada, Arkadev Chattopadhyay, Omar Fawzi, Phuong Nguyen in comput complex 2014 Canada Switzerland India

Ordinal automata and cantor normal form, Zoltan Esik in Int J of Foundations of CS 2012 Hungary

Query containment under bag and bag-set semantics, Foto Afrati, Matthew Damigos, Manolis Gergatsoulis in Information Processing Letters 2010 Athens Corfu Greece

Simplifying XML schema, single-type approximations of regular tree languages, Wouter Gelade, Tomasz Idziaszek, Wim Martens, Frank Neven, Jan Paredaens in J of Comp and Sys Sci 2013 Poland Germany Belgium

Strategies for cache and local memory management by global program transformation, Dennis Gannon, William Jalby, Kyle Gallivan UIllinois

Topological analysis of refinement, Michael Huth in Electronic Notes in Theoretical Comp Sci 2006 London

The utilization of matrix structure to generate optimized code from MATLAB programs, Bret Marsolf, Kyle Gallivan, Harry Wijshoff in Intl J Parallel Progr 1999 Illinois FloridaStateU Netherlands

Where to publish and find ontologies, a survey of ontology libraries, Matheiu d'Aquin, Natalya Noy in Web Semantics 2012 UK Stanford

34 DENSE and DENSITY

34.1 Dense and Density, Papers and Shorter Works

Accurate solution of dense linear systems I Algorithms in rounding to nearest, Siegfried M Rump 2013 Germany

Accurate solution of dense linear systems, II Algorithms using directed rounding, Siegfried M Rump 2013 Germany Japan

Actions of SO(3) on 4-dimensional stable planes, Rainer Lowen in aequationes mathematicae 1986 Germany

Actions of tori on orbifolds, Andre Haefliger, Eliane Salem in Annals of Global Analysis and Geometry 1991 Switzerland France

An $\aleph_1$ *Dense Ideal on* $\aleph_2$, Matthew Foreman in Israel J Math 1998 UCIrvine

Algebraic monoids with a dense group of units, Mohan S Putcha in semigroup forum 1984 NorthCarolinaStateU

Almost convexity on Abelian groups, Witold Jarczyk in aequationes mathematicae 2010 Poland

Almost periodic divisors in a strip, Sergey Favorov, Alexander Rashkovskii, Lev Ronkin in Journal d'Analyse Mathematique 1998 Ukraine

Analytic entities having associated maps with dense images, Mau-

rice Heins in Journal d'Analyse Mathematique 1979 UMaryland

Approximating ω-limit sets w periodic orbits, Emma D'Aniello, Timothy H Steele in aequationes mathematicae 2008 Italia Utah

Approximating edge dominating set in dense graphs, Richard Shmied, Claus Viehmann in Theoretical Computer Science 2012 Germany

Approximating the dense set-cover problem, Reuven Bar-Yehuda, Zehavit Kehat J. Comp. and System Sciences 2004 Israel

Approximation in commutative Banach algebras with dense principal ideals, Volker Runde in Archiv der Mathematik 1992 UCBerkeley

Attainable sets in infinite-dimensional spaces, Igor Kluvanek, Gregory Knowles in Mathematical systems theory 1973 Australia

A base-matrix lemma for sets of rationals modulo nowhere dense sets, Jorg Brendle, Diana Carolina Montoya in Mathematical Logic 2012 Japan Colombia

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35 DIFFERENTIAL EQUATIONS

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Boundary Element Analysis, Mathematical Aspects and Applications, Martin Schanz, Olaf Steinbach eds 2007 Springer

Boundary Element Methods, Stefan A Sauter, Christoph Schwab 2011 Springer

Boundary Element Methods with Applications to Nonlinear Problems, Goong Chen, Jianxin Zhou 2010 Springer

Boundary Representation Modelling Techniques, Ian Stroud 2006 Springer

Boundary Value Problems and Markov Processes, Kazuaki Taira 2009 Springer

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Control of Turbulent and Magnetohydrodynamic Channel Flows, Boundary Stabilization and State Estimation, Rafael Vazquez, Miroslave Krstic 2008 Springer

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Random Walks, Boundaries and Spectra, Daniel Lenz, Florian Sobieczky, Wolfang Woess eds 2011 Springer

Recent Advances in Boundary Element Methods, G D Manolis, D Polyzos eds 2009 Springer

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Topological Methods in the Study of Boundary Value Problems, Pablo Amster 2014 Springer Argentina

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Analysis of Finite Difference Schemes, for Linear Partial Differential Equations with Generalized Solutions, Bosko S Jovanovic,

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Computational Methods in Transport, Verification and Validation, Frank Graziani ed 2006 Springer

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Control of Nonlinear Distributed Parameter Systems, Goong Chen, Irena Lasiecka, Jianxin Zhou

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Differential Equations, Dynamical Systems, Intro to Chaos, Morris W Hirsch, Stephen Smale, Robert L Devaney 2004 Elsevier

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Dimension and Recurrence in Hyperbolic Dynamics, Luis Barreira 2000 Springer

Dimension Reduction of Large-Scale Systems, Peter Benner, Volker Mehrmann, Danny C Sorensen eds 2003 Springer

Dimension Theory of Hyperbolic Flows, Luis Barreira 2013 Springer

Direct Methods in the Theory of Elliptic Equations, Jindrich Necas 2012 Springer

Domain Decomposition Methods in Science and Engineering XIX, Yunqing Huang, Ralf Kornhuber, Olof Widlund, Jinchao Xu eds 2011

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Dynamics in Several Complex Variables, John Erik Fornaess 1994 AMS

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Energy Methods in Dynamics, Khanh Chau Le, Lu Trong Khiem Nguyen 2014 Springer

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Fixed Point Theory in Ordered Sets and Applications, from Differential and Integral Equations to Game Theory, Siegfried Carl,

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Luisa Zanghirati eds 2007 Springer

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Partial Differential equations in Fluid Dynamics, Isom Herron, Michael Foster 2008 Cambridge

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The central limit theorem and chaos, Niu Ying-xuan in Appl Math J Chinese Univ 2009 China

A centre-stable manifold for the energy-critical wave equation in $\mathbb{R}^3$ *in the symmetric setting*, Marius Beceanu in arXiv 2012 Rutgers

Coincidence and common fixed point results on metric spaces endowed with an arbitrary binary relation and applications, Maher Berzig in J Fixed Point Theory+Appl 2013 Tunisia

A combining method for solution of nonlinear boundary value problems, Zekeriya Girgin, Yasin Yilmaz, Ersin Demir in Appl Math+Comput 2014 Turkiye

Computation of period matrices of real algebraic curves, Mika Seppala in Discrete Comput Geom 1994 Finland

Constrained nonconvex nonsmooth optimization via proximal bundle method, Yang Yang, Liping Pang, Xuefei Ma, Jie Shen in J Optim Theory Appl 2014 Syracuse Dalian in China

Continuous block backward differentiation formula for solving stiff ordinary differential equations, O A Akinfenwa, S N Jator, N M Yao in Comput+Math+Appl 2013 China Tennessee

Cubic algebraic spline curves design, Xu Chen-dong, Chen Fa-lai, Deng Jian-song, Yang Zhou-wang in Appl Math J Chinese Univ 2011 China

Degenerate elliptic eigenvalue problems with indefinite weights, Kazuaki Taira in Mediterranean J Math 2008 Japan

Dimension of maps, universal spaces, and homotopy, A Karasev, V Valov in J Math Sci 2008 Canada

Domain decomposition techniques using spectral methods, A Quarteroni in Calcolo 1987 Italy

Double Pendulum, Laura Stickel 2009

Double Pendulum Numerical Analysis, Roja Nunna lecture notes for Math 53, Chaos Fall 2009 Dartmouth

Dynamical Systems, Examples of Complex Behavior, Jurgen Jost 2005 Springer

Dynamics of a double pendulum with distributed mass, M Z Rafat, M S Wheatland, T R Bedding 2008 Australia

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Existence of weak solutions to doubly degenerate diffusion equations, Ales Matas, Jochen Merker in Appl of Math 2012 Plzen in Czech Rep, Rostock in Germany

Extended hierarchies of invariant fiber bundles for dynamic equations on measure chains, Christian Potzsche in DE+Dyn Sys 2010 Germany

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36 ELECTRICITY

36.1 Electricity, Books and Longer Works

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Electric Vehicle Integration into Modern Power Networks, Rodrigo Garcia-Valle, Joao A Pecas Lopes eds 2013 Springer

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Energy Efficiency in Manufacturing Systems, Sebastian Theide 2012 Springer

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Introduction to Hydro Energy Systems, Basics, Technology, and Operation, 2012 Hermann-Josef Wagner, Jyotirmay Mathur Springer

Introduction to Printed Electronics, Katsuaki Suganuma 2014 Springer

Life-Cycle Assessment of Semiconductors, Sarah B Boyd, foreword by Arpad Horvath 2012 Springer

Photonics, a Short Course, Vittorio Degiorgio, Ilaria Cristiani 2014 Springer

Power Electronic Packaging, Design, Assembly Process, Reliability and Modeling, Yong Liu 2012 Springer

Power Theories for Improved Power Quality, Grzegorz Benysek, Marian Pasko eds 2012 Springer

Power, Control and Optimization, Ivan Zelinka, Pandian Vasant, Nader Barsoum eds 2013 Springer

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Semiconductor Research, Experimental Techniques, Amalia Patane, Naci Balkan eds 2012 Springer

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37 ENVIRONMENTAL and GREEN

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The Environment in Economics and Development, Pluralist Extensions of Core Economic Models, Vikram Dayal 2014 Springer

Environmental Issues in Automotive Industry, Paulina Golinska ed 2014 Springer

Evolutionary Based Solutions for Green Computing, Samee Ullah Khan, Joanna Kolodziej, Juan Li, Albert Y Zomaya eds 2013 Springer

Globalized Water, A Question of Governance, Graciela Schneier-Madanes ed 2014 Springer

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Keeping the Wild, Against the Domestication of the Earth, George Wuerthner, Eileen Crist, Tom Butler eds 2014 Springer

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tions Towards Integration, Carlo Rega ed 2014 Springer

Landslide Science for a Safer Geoenvironment Vol 1 International Programme on Landslides (IPL), Kyoji Sassa, Paolo Canuti, Yueping Yin eds 2014 Springer

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38 FINANCE

38.1 Finance, Books and Longer Works

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Accounting Information and Equity Valuation, Theory, Evidence, and Applications, Guochang Zhang 2014 Springer

Accounting Information Systems for Decision Making, Daniela Mancini, Eddy H J Vaassen, Renata Paola Dameri eds 2013 Springer

Earnings Accruals and Real Activities Management around Initial Public Offerings, Evidence from Specific Industries, Peter Ising 2014 Springer

Enterprise Management Control Systems in China, Xianzhi Zhang 2014 Springer

Environmental and Material Flow Cost Accounting, Principles and procedures, Christine Jasch 2009 Springer

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Internal Control, A Study of Concepts and Themes, Olof Arwinge 2013 Springer

International Company Taxation, An Introduction to the Legal and Economic Principles, Ulrich Schreiber 2013 Springer

International Perspectives on Accounting and Corporate Behavior, Kunio Ito, Makoto Nakano eds 2014 Springer

International Trade and Global Macropolicy, Farrokh Langdana, Peter T Murphy 2014 Springer

A Legal Guide to United States Business Organizations, The Law of Partnerships, Corporations, and Limited Liability Companies, John M B Balouziyeh 2013 Springer

Organizational Trust, Measurement, Impact, and the Role of Management Accountants, Johannes Karl Muhl 2014 Springer

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Backward Stochastic Differential Equations with Jumps and Their Actuarial and Financial Applications BSDEs with Jumps, Lukasz Delong 2013 Springer

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Community-Based Operations Research, Decision Modeling for Local Impact and Diverse Populations, Michael P Johnson ed 2012 Springer

Complexity in Financial Markets, Modeling Psychological Behavior in Agent-Based Models and Order Book Models, Matthieu Cristelli 2014 Springer Theses

Computational Finance, An Introductory Course with R, Argimiro Arratia 2014 Springer

Computational Methods for Quantitative Finance, Finite Element Methods for Derivative Pricing, Norbert Hilber, Oleg Reichmann, Christoph Schwab, Christoph Winter 2013 Springer

Contract Theory in Continuous-Time Models, Jaksa Cvitanic, Jianfeng Zhang 2013 Springer

Derivative Pricing in Discrete Time, Nigel J Cutland, Alet Roux 2012 Springer

Derivative Securities and Difference Methods, You-Ian Zhu, Xiaonan Wu, I-Liang Chern, Zhi-zhong Sun 2013 Springer

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Econometrics of Financial High-Frequency Data, Nikolaus Hautsch 2013 Springer

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Extreme Value Theory, An Introduction, Laurens de Haan, Ana Ferreira 2006 Springer

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Financial and Insurance Formulas, Tomas Cipra 2010 Springer

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Financial Mathematics, Theory and Problems for Multi-period Models, Andrea Pascucci, Wolfgang J Runggaldier 2012 Springer

Financial Modeling, A Backward Stochastic Differential Equations Perspective, Stephane Crepey 2013 Springer

Financial Modeling, Actuarial Valuation and Solvency in Insurance, Mario V Wuthrich, Michael Merz 2013 Springer

Functional Equations and How to Solve Them, Christopher G Small 2007 Springer

Functionals of Multidimensional Diffusions with Applications to Finance, Jan Baldeaux, Eckhard Platen 2013 Springer

Generalized Hyperbolic Secant Distributions with Applications to Finance, Matthias J Fischer 2014 Springer

Gerber-Shiu Risk Theory, Andreas E Kyprianou 2013 Springer

Global Analysis of Dynamic Models in Economics and Finance, Essays in Honour of Laura Gardini, Gian Italo Bischi, Carl Chiarella, Iryna Sushko eds 2013 Springer

Global Optimization, A Stochastic Approach, Stefan Schaffler 2012 Springer

Interest Rate Derivatives, Valuation, Calibration and Sensitivity Analysis, Ingo Beyna 2013 Springer

Introduction to Continuous-Time Stochastic Processes, Theory, Models, and Applications to Finance, Biology, and Medicine, Vincenzo Capasso, David Bakstein 2012 Springer

Introduction to Financial Forecasting in Investment Analysis, John B Guerard Jr 2013 Springer

An Introduction to Heavy-Tailed and Subexponential Distributions, Sergey Foss, Dmitry Korshunov, Stan Zachary 2013 Springer

Introduction to Insurance Mathematics, Technical and Financial Features of Risk Transfers, Annamaria Olivieri, Ermanno Pitacco 2011 Springer

Introduction to Modern Time Series Analysis, Gebhard Kirchgassner, Jurgen Wolters, Uwe Hassler 2013 Springer

Introduction to Quantitative Methods for Financial Markets, Han-

sjoerg Albrecher, Andreas Binder, Volkmar Lautscham, Philipp Mayer 2013 Springer

An Introduction to Socio-Finance, Jorgen Vitting Andersen, Andrzej Nowak 2013 Springer

Lagrangian Probability Distributions, Prem C Consul, Felix Famoye 2006 Springer

Life Insurance Risk Management Essentials, Michael Koller 2011 Springer

The Logic of Logistics, Theory, Algorithms, and Applications for Logistics Management, David Simchi-Levi, Xin Chen, Julien Bramel 2014 Springer

Malliavin Calculus and Stochastic Analysis, A Festschrift in Honor of David Nualart, Frederi Viens, Jin Feng, Yaozhong Hu, Eulalia Nualart eds 2013 Springer

Market-Consistent Actuarial Valuation, Mario V Wuthrich, Hans Buhlmann, Hansjorg Furrer 2010 Springer

Mathematical and Statistical Methods for Actuarial Sciences and Finance, Cira Perna, Marilena Sibillo eds 2012 Springer

Mathematics for Econometrics, Phoebus J Dhrymes 2013 Springer

Mathematics of Financial Markets, Robert J Elliott, P Ekkehard Kopp 2005 Springer

Modern Actuarial Risk Theory Using R, Rob Kaas, Marc Goovaerts, Jan Dhaene, Michel Denuit 2008 Springer

Modern Problems in Insurance Mathematics, Dmitrii Silvestrov, Anders Martin-Lof eds 2014 Springer

Monte Carlo and Quasi-Monte Carlo Sampling, Christiane Lemieux 2009 Springer

Multicriteria Analysis in Finance, Michael Doumpos, Constantin Zopounidis 2014 Springer

Multifractal Financial Markets, An Alternative Approach to Asset and Risk Management, Yasmine Hayek Kobeissi 2013 Springer

Neutral and Indifference Portfolio Pricing, Hedging and Investing, With Applications in Equity and FX, Srdjan Stojanovic 2012 Springer

Non-Life Insurance Mathematics, An Introduction with the Poisson Process, Thomas Mikosch 2009 Springer

Non-Life Insurance Pricing with Generalized Linear Models, Esbjorn Ohlsson, Bjorn Johansson 2010 Springer

Numerical Methods in Finance, Rene A Carmona, Pierre Del Moral, Peng Hu, Nadia Oudjane eds 2012 Springer

Optimal Investment, L C G Rogers 2013 Springer

Optimal Stochastic Scheduling, Xiaoqiang Cai, Xianyi Wu, Xian Zhou 2014 Springer

Paris-Princeton Lectures on Mathematical Finance 2013, Fred Espen Benth, Dan Crisan, Paolo Guasoni, Konstantinos Manolarakis, Johannes Muhle-Karbe, Colm Nee, Philip Protter 2013 Springer

Portfolio Analytics, An Introduction to Return and Risk Measurement, Wolfgang Marty 2013 Springer

Possibility Theory and the Risk, Irina Georgescu 2012 Springer

Progress in Industrial Mathematics at ECMI 2012, Magnus Fontes, Michael Gunther, Nicole Marheineke eds 2014 Springer

Quantile-Based Reliability Analysis, N Unnikrishnan Nair, P G Sankaran, N Balakrishnan 2013 Springer

Quantitative Energy Finance, Modeling, Pricing, and Hedging in Energy and Commodity Markets, Fred Espen Benth, Valery A Kholodnyi, Peter Laurence eds 2014 Springer

Real Estate Investment, A Value Based Approach, G Jason Goddard, Bill Marcum 2012 Springer

Recursions for Convolutions and Compound Distributions with Insurance Applications, Bjorn Sundt, Raluca Vernic 2009 Springer

Risk and Portfolio Analysis, Principles and Methods, Henrik Hult,

Filip Lindskog, Ola Hammarlid, Carl Johan Rehn 2012 Springer

Risk Measures and Attitudes, Francesca Biagini, Andreas Richter, Harris Schlesinger eds 2013 Springer

Risk Theory and Reinsurance, Griselda Deelstra, Guillaume Plantin 2005 Springer

Statistical Inference for Financial Engineering, Masanobu Taniguchi, Tomoyuki Amano, Hiroaki Ogata, Hiroyuki Taniai 2014 Springer

Statistical Models and Methods for Financial Markets, Tze Leung Lai, Haipeng Xing 2008 Springer

Statistical Tools for Finance and Insurance, Pavel Cizek, Wolfgang Karl Hardle, Rafal Weron eds 2011 Springer

Statistics of Financial Markets, An Introduction, Jurgen Franke, Wolfgang Karl Hardle, Christian Matthias Hafner 2011 Springer

Statistics of Financial Markets, Exercises and Solutions, Szymon Borak, Wolfgang Karl Hardle, Brenda Lopez-Cabrera 2013 Springer

Stochastic Analysis with Financial Applications Hong Kong 2009, Arturo Kohatsu-Higa, Nicolas Privault, Shuenn-Jyi Sheu eds 2011 Springer

Stochastic Control in Insurance, Hanspeter Schmidli 2008 Springer

Stochastic Models in Life Insurance, Michael Koller 2012 Springer

Stochastic Processes, From Physics to Finance, Wolfgang Paul, Jorg Baschnagel 2013 Springer

Stochastic Simulation and Monte Carlo Methods, Mathematical Foundations of Stochastic Simulation, Carl Graham, Denis Talay 2013 Springer

Stock Market Modeling and Forecasting, A System Adaptation Approach, Xiaolian Zheng, Ben M Chen 2013 Springer

Topics in Numerical Methods for Finance, Mark Cummins, Finbarr Murphy, John J H Miller eds 2012 Springer

Towards an Advanced Modelling of Complex Economic Phenomena, Pretopological and Topological Uncertainty Research Tools, Jaime Gil Aluja, Ana Maria Gil Lafuente 2012 Springer

Trading Systems, Theory and Immediate Practice, Renato Di Lorenzo 2013 Springer

Weather Derivatives, Modeling and Pricing Weather-Related Risk, Antonis K Alexandridis, Achilleas D Zapranis 2013 Springer

39 FLOWS, FLUIDS, WATER, and WAVES

39.1 Flows, Fluids, Water, and Waves, Books and Longer Works

An accurate SPH modeling of visous flows around bodies at low and moderate Reynolds numbers, S Marrone, A Colagrossi, M Antuono, G Colicchio, G Graziani in J Comput Phys 2013 Italy

Advances in Numerical Simulation of Nonlinear Water Waves, Qingwei Ma ed 2010 World Scientific series Advances in Coastal and Engineering Volume 11

Computation of Viscous Incompressible Flows, Dochan Kwak, Cetin C Kiris 2011 Springer

Emerging Compounds Removal from Wastewater, Natural and Solar Based Treatments, Giusy Lofrano ed 2012 Springer

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40 FRACTIONAL DIMENSION

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Hydrologie quantitative, Pierre-Alain Roche, Jacques Miquel, Eric Gaume 2012 Springer

Mathematiques et Technologie, Christiane Rousseau, Yvan Saint-Aubin 2008 Springer

Modeles et methodes stochastiques, Pierre Del Moral, Christelle Verge 2014 Springer

Modelisation et evaluation quantitative des risques en actuariat, Modeles sur une periode, Etienne Marceau 2013 Springer

Pollution atmospherique, Bruno Sportisse 2008 Springer

Teoria della turbolenza, (articles in various languages), C Ferrari ed 1957 2011 Springer

41.2 French, Papers and Shorter Works

Algebrisation des varietes analytiques complexes et categories derivees, Bertrand Toen, Michel Vaquie in Math Ann 2008

Analyse numerique des ecoulements quasi-Newtonians dont la viscosite obeit a la loi puissance ou la loi de carreau, Jacques Baranger, Khalid Najib in Numer Math 1990 France Maroc

Analyse numerique du probleme des ondes longues en eau peu profonde, A Chalabi in Calcolo 1982 France Algeria

Approximation numerique de problemes de controle optimal avec contrainte sur le controle et sur l'etat, J Mossino in CALCOLO 1976

Approximation numerique du cisaillement transverse dans les plaques minces en flexion, P Destuynder, J C Nedelec in Numer Math 1986 France

Asymptotiques d'un systeme dynamique conservatif associe a une equation elliptique non lineaire, Jean-Rene Licois in J d'Analyse Math 1995

Calcul des variations stochastique pour la mesure de densite uni-

forme, Nicoals Privault in Potential Analysis 1997 France

Caracterisation de l'espace projectif, Stephane Druel in manuscripta math 2004

Caracterisation des exemples de lattes et de kummer, Serge Cantat in Compositio Math 2008 France

Classification des representations temperees d'un groupe p-adique non connexe, Karem Bettaieb in Algebr Represent Theor 2013 France

Cloture integrale et operations de tores algebriques de complexite un dans les varietes affines, Kevin Langlois in Transformation Groups 2013 Fourier France

Complexe de poids des varietes algebriques reelles avec action, Fabien Priziac in Mathematische Zeitschrift 2013 Rennes France

Construction et classification de certaines solutions algebriques des systemes de garnier, Karamoko Diarra in Bull Brazilian Math Soc 2013

Courbes spectrales et compactifications de jacobiennes, Daniel Schaub in Math Z 1998 France

Cycles algebriques sur les surfaces K3 reelles, Frederic Mangolte in Math Z 1997 Savoie France

Dimension de Krull, Nullstellensatze et evaluation dynamique, Henri Lombardi in Math Z 2002 France

Distribution des valeurs de transformations meromorphes et applications, Tien-Cuong Dinh, Nessim Sibony in arXiv 2003 France

Dynamique des applications d'allure polynomiale, Tien-Cuong Dinh, Nessim Sibony in J Mathematiques Pures Appl 2003 France

Entropie topologique des applications meromorphes, Vincent Guedj in Ergod Th+Dynam Sys 2005 France

Equation des ondes pour un operateur hypo-elliptique a caracteristiques doubles sur une variete symplectique et asymptotiques geometriques, Bernard Lascar, Richard Lascar 2004

Espace de Hardy pour les quotients $\Gamma\backslash G$, Dehbia Achab in Math Z 1999 France

Espaces de Berkovich sur Z, etude locale, Jerome Poineau in Invent math 2013 Strasbourg France

Espaces de besov et estimations de strichartz generalisees sur le groupe de heisenberg, Hajer Bahouri, Patrick Gerard, Chao-Jiang Xu in J d'Analyse Math 2000

Etude des equations stationnaire de schrodinger, integrale de gelfand-levitan et de korteweg-de-vries, solitons et methode de la diffusion inverse, A Lesfari in Aequationes Mathematicae 2013

Etude numerique d'un probleme de stokes intervenant en oceanographie, F Brossier in Calcolo 1981

Etude stochastique de l'erreur dans un calcul numerique approche, Charles Blanc in Commentarii Math Helvetici 1952

Fractions continues sur les surfaces de veech, Pierre Arnoux, Pascal Hubert in J d'Analyse Math 2000

Hauteurs normalisees des sous-varietes de produits de modules de Drinfeld, Vincent Bosser in Compositio Mathematica 2002 Basel Switzerland

Image numerique simultanee d'une famille d'operateurs sur l'espace de hilbert, Gilles Cassier in Integral Eq+Oper Theor 1990

Immersions biharmoniques dans une variete de cartan-hadamard, Said Asserda, M'Hamed Kassi in C R Acad Sci Paris Ser I 2013 Kenitra and Meknes in Maroc

Jauge discontinue et particules dans un hyperespace-temps multiconnexe, C Gauthier, P Gravel in Il Nuovo Cimento 1991 Canada

La formule des traces pour les revetements de groups reductifs connexes III, le developpement spectral fin, Wen-Wei Li in Math Ann 2013

Le prolongement analytique de la solution du probleme de Cauchy pour un certain operateur differentiel a coefficients polynomiaux II, Yusaku Hamada, Takashi Okaji, Yoshitsugu Takei in J Fixed Point Theor+Appl 2014

Le prolongement analytique de la solution du probleme de Cauchy pour un certain operateur differentiel a coefficients polynomiaux III, Yusaku Hamada, Takashi Okaji, Yoshitsugu Takei in J Fixed Point Theor+Appl 2014

Les glissements de terrain du quartier, Belouizdad, Constantine, Algerie Rachid Bougdal, Alain Larriere et al in Bull Eng Geol 2013 France

Majoration du nombre de zeros d'une fonction meromorphe en dehors d'une droite verticale et applications, Oswaldo Velasquez Castanon in J d'Analyse Math 2010 France Peru

Mesures plurisousharmoniques et mesures de wiener, P Malliavin, Jacques Vauthier in J d'Analyse Math 1993

Mesures quasi-invariantes sur le tore T^d, Nicolas Chevallier in J D'Analyse Math 2004

Methodes spectrales dans une portion de disque, Christine Bernardi, Andreas Karageorghis in Numer Math 1996 France Cyprus

Minoration de la hauteur de Neron-Tate sur les surfaces abeliennes, Fabien Pazuki in manuscripta math 2013

Modeles semi-factoriels et modeles de neron, Cedric Pepin in Math Ann 2013 Bordeaux in Talence in France

Pentes en cohomologie rigide et F-isocristaux unipotents, Bruno Chiarellotto, Bernard Le Stum in manuscripta math 1999

Polynomes semi-conformes et morphismes harmoniques, Rachel Ababou, Paul Baird, Jean Brossard in Math Z 1999 France

Quelques consequences des travaux d'Arthur pour le spectre et la topologie des varietes hyperboliques, Nicolas Bergeron, Laurent Clozel 2013

Quelques resultats sur les deformations equivariantes des courbes stables, Sylvain Maugeais in manuscripta math 2006

Realisation de hodge des motifs de voevodsky, Florence Lecomte, Nathalie Wach in manuscripta math 2013 Strasbourg in France

Regularisation spectrale et proprietes metriques des moyennes mobiles, Mikhail Lifshits, Michel Weber in J d'Analyse Math 2003

Relevements des revetements de courbes faiblement ramifies, Gunther Cornelissen, Ariane Mezard in Math Z 2006 Utrecht Nederland Paris-Su Orsay Cedex France

Remarques sur la construction des ondelettes orthogonales, Yves Meyer, Freddy Paiva in J d'Analyse Math 1993

Representation des solutions du probleme exterieur de helmholtz-dirichlet, Pierre Bolley, Pham The Lai in J d'Analyse Math 2001

Resolution numerique d'un probleme de controle optimal d'un couplage des equaitons de navier-stokes et celle de la chaleur, C Cuvelier in Calcolo 1978 Delft Pays-Bas

Resolution numerique des grands systemes differentiels lineaires, Jean Legras in Numerische Mathematik 1966

Resolution numerique du probleme des surfaces minima, Claude Jouron in Arch Rational Mech+Anal 1975

Role des effondrements karstiques, Phillipe Gombert, Julie Orsat, David Mathon, Rafid Alboresha, Marwan Al Heib, Oliver Deck in Bull Eng Geol Environ 2014 France

Sections hyperplanes a singularites simples et exemples de variations de structure de Hodge, Damien Megy in Math Ann 2012 Fourier in France

Semi-simplicite de produits tensoriels en caracterstique p, Pierre Deligne in Invent math 2013

Spectre automorphe des varietes hyperboliques et applications topologiques, N Bergeron, L Clozel in arXiv 2004

Structure interne des representations modulo p de $SL_2(Q_p)$, Ramla Abdellatif, Stefano Morra in manuscripta math 2014

Suites d'applications meromorphes multivaluees et courants laminaires, Tien-Cuong Dinh in arXiv 2003 France

Sur l'effectivite numerique des images inverses de fibres en droites, Paun Mihai in Math Ann 1998 France Bucarest in Roumanie

Sur la factorisation de type wiener-hopf d'un operateur, Christian Sunyach in C R Acad Sci Paris Ser I 1999 France

Sur l'integration sous forme finie de l'equation differentielle lineaire du second ordre et a coefficients rationnels, Par Le P Pepin, S J in Pur Ed Applicata St. Etienne 1862

Sur la densite des representations cristallines de $Gal(\bar{Q}_p/Q_p)$, Gaetan Chenevier in Math Ann 2013 France

Sur la resolution numerique des problems a grandes deformations elastiques, cas de la symetrie spherique, Par P Guelin in Rheol Acta 1973 France

Sur le probleme de la derivee oblique II, Kazuaki Taira in Arkiv for Matematik 1979 Japon

Sur les fonctions harmoniques bornees sur les groupes de lie resolubles connexes et l'existence de mesure invariante, Christophe Cuny in J D'Analyse Math 2004

Sur les formules de quadrature numerique a nombre minimal de noeuds d'integration, J L Gout, A Guessab in Numerische Math 1986

Sur un lemme d'equivalence utilise en analyse numerique, L Tartar in CALCOLO 1987

Theoremes d'unicite pour le systeme de navier-stokes tridimensionnel, Jean-Yves Chemin in J d'Analyse Math 1999

Tissus lineaires et theoremes d'algebrisation de type abel-inverse et reiss-inverse, Alain Henaut in Geometriae Dedicata 1997 France

Torseurs sous une variete abelienne sur R((t)), Antoine Ducros in manuscripta math 2001 Rennes France

Toute forme moderement ramifiee d'un polydisque ouvert est triviale, Antoine Ducros in Math Z 2013 France

Trou dimensionnel dans les groupes de lie compacts semisimples via les series de fourier, Nicolas de Saxce in J d'Analyse Math 2013

Une classe d'espaces prehomogenes de type parabolique faiblement spheriques, Iris Muller in arXiv 2008 France

Une inegalite de heisenberg inverse, Jean-Pierre Kahane, Jean-Marc Levy-Leblond, Johannes Sjostrand in J d'Analyse Math 1993

Une methode de resolution numerique des equations de navier stokes, P Jamet, P Lascaux, P A Raviart in Numer Math 1970

Une methode numerique pour le calcul des points de retournement, application a un probleme aux limites non-lineaire, Jean-Claude Paumier in Numer Math 1981

Une methode numerique pour les problemes d'equilibre de corps hyperelastiques compressibles en grandes deformations, Patrick Le Tallec, Marina Vidrascu in Numer Math 1984

Varietes de Prym associees aux revetements n-cycliques d'une courbe hyperelliptique, in Math Z 2003 France

42 GAME THEORY and GAMES ON GRAPHS

42.1 Game Theory and Games on Graphs, Books and Longer Works

Advances in Dynamic Games, Theory, Applications, and Numerical Methods for Differential and Stochastic Games, Michele Breton, Krzysztof Szajowski ed 2011 Springer

Advances in Dynamic Games, Theory, Applications, and Numerical Methods for Differential and Stochastic Games, Pierre Cardaliaguet, Ross Cressman ed 2012 Springer

Dynamic Games in Economics, Josef Haunschmied, Vladimir M Veliov, Stefan Wrzaczek eds 2014 Springer

Dynamics, Games and Science I, Mauricio Matos Peixoto, Alberto Adrego Pinto, David A Rand ed. 2011 Springe

Dynamics, Games and Science II, Mauricio Matos Peixoto, Alberto Adrego Pinto, David Rand ed. 2011 Springer

Evolutionary games on graphs, Gyorgy Szabo, Gabor Fath in Physics Reports 2007 Hungary

Fixed point theorems w applications to economics and game theory, Kim C Border 1985

Game Theory for Networks, Vikram Krishnamurthy, Qing Zhao, Minyi Huang, Yonggang Wen eds 2012 Springer

Game Theory, A Multi-Leveled Approach, Hans Peters 2008 Springer

Game theory, Decisions, Interaction and Evolution, James N Webb 2007 Springer

Handbook of Game Theory with Applications to Economics Vol I, Aumann Hart

Models in Cooperative Game Theory, Crisp, Fuzzy, and Multi-choice Games, Branzei Dimitrov Tijs 2005 Springer

Pareto Optimality, Game Theory and Equilibria, Altannar Chinchuluun, Panos M Pardalos, Athanasios Migdalas, Leonidas Pitsoulis eds 2008 Springer

Tug-of-war and the infinity laplacian, Yuval Peres, Oded Schramm, Scott Sheffield, David Wilson in J Amer Math Soc 2009 Microsoft

42.2 Game Theory and Games on Graphs, Papers and Shorter Works

42.2.1 Games on Graphs

Action-graph games, Albert Xin Jiang, Kevin Leyton-Brown, Navin A R Bhat in Games+Econ Behav 2011 Canada

Adapted game colouring of graphs, H A Kierstead, Chung-Ying Yang, Daqing Yang, Xuding Zhu in Eur J Comb 2012 ArizonaStateU Taiwan China

Asymmetric directed graph coloring games, Stephan Dominique Andres in Discrete Math 2009 Germany

Asymmetric marking games on line graphs, Daqing Yang, H A Kierstead in Discrete Math 2008 China ArizonaStateU

The average tree solution for cycle-free graph games, P Jean Jacques Herings, Gerard van der Laan, Dolf Talman in Games+Econ Behav 2008 Netherlands

A banzhaf value for games with fuzzy communication structure, computing the power of the political groups in the european parliament, I Gallego, J R Fernandez, A Jimenez-Losada in Fuzzy sets and systems 2013 Spain

A characterization of edge-perfect graphs and the complexity of recognizing some combinatorial optimization games, M P Dobson, V Leoni, G Nasini in Discrete Optimization 2013 Argentina

Circular game chromatic number of graphs, Wensong Lin, Xuding Zhu in Discrete Math 2009 China Taiwan

Coloring games on squares of graphs, Daqing Yang in Discrete Math 2012 China

Colouring games on outerplanar graphs and trees, Hungyung Chang, Xuding Zhu in Discrete Math 2009 Taiwan

The complexity of flood-filling games on graphs, Kitty Meeks, Alexander Scott in Discrete Appl Math 2012 Oxford

The computational complexity of the edge-perfect graph and the totally balanced packing game recognition problems, M P Dobson, V Leoni, G Nasini in Elec Notes in Discrete Math 2010 Argentina

Domination game, extremal families of graphs for 3/5 conjectures, Bostjan Bresar, Sandi Klavzar, Gasper Kosmrlj, Douglas Rall in Discrete Appl Math 2013 Slovenia FurmanU

Edge-partitions of graphs of nonnegative characteristic and their game coloring numbers, Wei-Fan Wang in Discrete Math 2006 China

An efficient and fair solution for communication graph games, Rene van den Brink, Anna Khmelnitskaya, Gerard van der Laan in Econ Lett 2012 Netherlands Russia

Equivalence and axiomatization of solutions for cooperative games with circular communication structure, Ozer Selcuk, Takamasa Suzuki, Dolf Talman in Econ Lett 2013 Netherlands

An evasion game on a graph, John Haslegrave in Discrete Math 2014 UK

The existence theorem of absolute equilibrium about games on connected graph with state payoff vector, GAO HongWei, YANG HuiJing, WANG GuiXi, YU Kun in Sci China Math 2010 Qindao in China

Flooding games on graphs, A Lagoutte, M Noual, E Thierry in Discrete Appl Math article in press France

Game chromatic number of cartesian product graphs, Iztok Peterin in Elec Notes in Discrete Math 2007 Slovenia

Game chromatic number of graphs with locally bounded number of cycles, Konstanty Junosza-Szaniawski, Lukasz Rozej in Info Proc Lett 2010 Poland

Game colouring of the square of graphs, Louis Esperet, Xuding Zhu in Discrete Math 2009 Czech Rep Taiwan

The game L(d,1)-labeling problem of graphs, Ma-Lian Chia, Huei-Ni Hsu, David Kuo, Sheng-Chyang Liaw, Zi-teng Xu in Discrete Math 2012 Taiwan

Game matching number of graphs, Daniel Cranston, William Kinnersley, Suil O, Douglas West in Discrete Appl Math 2013 USA China

Game-perfect graphs with clique number 2, Stephan Dominique Andres in Elect Notes in Discrete Math 2006 Germany

Graph sharing games, complexity and connectivity, Josef Cibulka, Jan Kyncl, Viola Meszaros, Rudolf Stolar, Pavel Valtr in Theor Comput Sci 2013 Czech Rep Germany

Guard games on graphs, keep the intruder out, Fedor Fomin, Petr Golovach, Daniel Lokshtanov in Theor Comput Sci 2011 Norway UK UCSanDiego

The guarding game is E-complete, R Samal, T Valla in Theor

Comput Sci article in press Czech Rep

How mutation affects evolutionary games on graphs, Benjamin Allen, Arne Traulsen, Corina Tarnita, Martin Nowak in J Theor Bio 2012 Harvard Germany

Inclusive and personal fitness in synergistic evolutionary games on graphs, Peter Taylor in J Theor Bio 2013 Canada

Lower bounds for the game colouring number of partial k-trees and planar graphs, Jiaojiao Wu, Xuding Zhu in Discrete Math 2008 Taiwan

On a base exchange game on bispanning graphs, Stephan Dominique Andres, Winfried Hochstattler, Markus Merkel in Discrete Appl Math article in press Germany

On balanced coloring games in random graphs, 2011 version Luca Gugelmann, Reto Spohel in Elec Notes in Discrete Math 2011 Switzerland Germany

On balanced coloring games in random graphs, Luca Gugelmann, Reto Spohel in Eur J Comb 2014 Switzerland

On graphs which can or cannot induce chinese postman games with a non-empty core, Daniel Granot, Frieda Granot in Discrete Appl Math 2012 Canada

Online ramsey games for triangles in random graphs, Jozsef Balogh, Jane Butterfield in Discrete Math 2010 UIllinois UCSanDiego

Parity games on undirected graphs, Dietmar Berwanger, Olivier Serre in Info Proc Lett 2012 France

Parity in graph sharing games, Piotr Micek, Bartosz Walczak in Discrete Math 2012 Poland

Pebble game algorithms and sparse graphs, Audrey Lee, Ileana Streinu in Discrete Math 2008 UMassAmherst Smith

Perfect graphs, kernels, and cores of cooperative games, E Boros, V Gurvich in Discrete Math 2006 Rutgers

Reputation games for undirected graphs, David Avis, Kazuo Iwama, Daichi Paku in Discrete Appl Math article in press Japan Canada

A review of evolutionary graph theory with application to game theory, Paulo Shakarian, Patrick Roos, Anthony Johnson in BioSystems 2012 WestPoint UMaryland

Static search games played over graphs and general metric spaces, Thomas P Oleron Evans, Steven R Bishop in Eur J Oper Res 2013 UK

A stochastic differential game theory modeling and analyzing for multi-local-worlds graph directed, Xiaojing Zheng in Sys Engr Proc 2012 China

A strategic implementation of the average tree solution for cycle-free graph games, Rene van den Brink, Gerard van der Laan, Nigel

Moes in J Econ Theor 2013 Netherlands

The strong game colouring number of directed graphs, Wai Hong Chan, Wai Chee Shiu, Pak Kiu Sun, Xuding Zhu in Discrete Math 2013 Hong Kong China

Tree, web and average web values for cycle-free directed graph games, Anna Khmelnitskaya, Dolf Talman in Eur J Oper Res 2013 Russia Netherlands

Values of games with graph restricted communication and a priori unions, J M Alonso-Meijide, M Alvarez-Mozos, M G Fiestras-Janeiro in Math Soc Sci 2009 Spain

Vertex Nim played on graphs, Eric Duchene, Gabriel Renault in Theor Comput Sci 2014 France

42.2.2 Various Game Theory

Animal network phenomena, insights from triadic games, Mike Mesterton-Gibbons, Tom Sherratt FSU CarletonU

Bounded rationality, strategy simplification, and equilibrium, Hubie Chen in Int J Game Theory 2013 Spain

The complexity of computing a nash equilibrium, Daskalakis, Goldberg, Papadimitriou in Commun ACM 2009 Berkeley UK

Convex decomposition of games and axiomatizations of the core

and the D-core, Francesc Llerena, Carles Rafels in Int J Game Theory 2007 Spain

Distributed learning in large populations, Michael Fox dissertation in Elec+Comp Engr 2012 Georgia Tech

Divide and conquer, when and how should competitors share?, Mike Mesterton-Gibbons, tom Sherratt in Evol Ecol 2012 FSU CarletonU

Econobiophysics, game of choosing, model of selection or election process with diverse accessible information, Klonowski et al Nonlinear Biomed Phys 2011

Essays on the econometrics of games, Brendan Kline dissertation in economics 2012 NorthwesternU

Essential stability in games with infinitely many pure strategies, Yong-Hui Zhou, Jian Yu, Shu-Wem Xiang in Int J Game Theory 2007 Guizhou China

Evolution and maintenance of cooperation via inheritance of neighborhood relationship, TAN Shaolin, LU JinHu, YU XingHuo, HILL David John in Chinese Sci Bull 2013 China Australia HongKong

Evolutionary game-theoretic semantics and its foundational status, Pietarinen in Evolutionary Epistemology, Language and Culture 2006

Evolutionary selection against dominated strategies, Josef Hof-

bauer, Jorgen Weibull in J Econ Theory 1996 Austria Sweden

Friendship selection, Javier Rivas in Int J Game Theory 2009 Leicester UK

Game theory based models to analyze water conflicts in the middle route of the south-to-north water transfer project in China, Shouke Wei, Hong Yang, Karim Abbaspour, Jamshid Mousavi, Albrecht Gnauck in Water Research 2010

Gradient Transformation Trajectory Following Algorithms for Determining Stationary Min-Max Saddle Points, Grantham in Adv Dyn Game Theory 2007

Higher order game dynamics, Rida Laraki, Panayotis Mertikopoulos in J Econ Theory 2013 France

Information, variance and cooperation, minimal models, Mike Mesterton-Gibbons, Tom Sherratt in Dyn Games Appl 2011 FSU CarletonU

Long-run equilibria with dominated strategies, Chongmin Kim, Kam-Chau Wong in Games+Econ Behavior 2010 Korea Hong Kong

Maximal and minimal solutions of an aronsson equation, L^∞ variational problems versus the game theory, Yifeng Yu in Calc Var 2010

Noncooperative formation of coalitions in hedonic games, Bloch, Diamantoudi in Int J Game Theory 2011 France Canada

Numerical Methods for Stochastic Differential Games, The Ergodic Cost Criterion, Kushner in Adv Dyn Game Theory 2007

On alpha-roughly weighted games, Josep Freixas, Sascha Kurz in Int J Game Theory 2013 Spain Germany

On myopic stability concepts for hedonic games, Shao Chin Sung, Dinko Dimitrov in Theory and Decision 2007 Japan Germany

On some families of cooperative fuzzy games, Yaron Azrieli, Ehud Lehrer in Int J Game Theory 2007 Tel Aviv Israel

On some geometry and equivalence classes of normal form games, Fabrizio Germano in Int J Game Theory 2006 Spain

On the impact of fair best response dynamics, Angelo Fanelli, Luca Moscardelli, Alexander Skopalik in arXiv 2011 Singapore Italy

On the invariance of the set of stable matchings with respect to substitutable preference profiles, Martinez, Masso, Neme, Oviedo in Int J Game Theory 2008 San Luis Argentina

On the value of commitment, Joshua Letchford, Dmytro Korzhyk, Vincent Conitzer in Auton Agent Multi-Agent Syst 2013 DukeU

The optimal trajectory in the partial-cooperative game, Mikaelyan Khachaturyan in Adv Dyn Game Theory 2007

Popular mixed matchings, Telikepalli Kavitha, Julian Mestre, Meghana

Nasre in Theoretical Comp Sci 2011 India Germany

The positive core of a cooperative game, Guni Orshan, Peter Sudholter in Int J Game Theory 2010 Israel Denmark

Pure-strategy nash equilibria in nonatomic games with infinite-dimensional action spaces, Xiang Sun, Yongchao Zhang in Econ Theory 2014 Wuhan Shanghai

Random paths to p-stability in the roommate problem, Inarra, Larrea, Molis in Int J Game Theory 2008 Spain

Random paths to pairwise stability in many-to-many matching problems, a study on market equilibration, Fuhito Kojima, M Utku Unver in Int J Game Theory 2008 Harvard Pittsburg

Rational ignorance and voting behavior, Cesar Martinelli in Int J Game Theory 2007 Mexico

The shapley value of exact assignment games, Maike Hoffmann, Peter Sudholter in Int J Game Theory 2007 Germany Denmark

Simple search methods for finding a nash equilibrium, Porter, Nudelman, Shoham in Games and Econ Behav 2008 Stanford

Simultaneously non-dense orbits under different expanding maps, David Farm in Dynamical Systems 2010

Singular Perturbation Trajectory Following Algorithms for Min-Max Differential Games, McDonald Grantham in Adv Dyn Game

Theory 2007

Social eavesdropping, a game-theoretic analysis, Mike Mesterton-Gibbons, Tom Sherratt in Bull Math Bio 2007 FSU CarletonU

A solution to matching with preferences over colleagues, Federico Echenique, M Bumin Yenmez in Game+Econ Behav 2007 Caltech Stanford

Stochastic evolution of rules for playing finite normal form games, Fabrizio Germano in Theory+Decision 2007 Spain

Three hierarchies of simple games parameterized by resource parameters, Gvozdeva, Hemaspaandra, Slinko in Int J Game Theory 2013 New Zealand Rochester

Trembling hand perfection for mixed quanta/best response equilibria, David Wolpert in Int J Game Theory 2009

43 GEOPHYSICS

43.1 Geophysics, Books and Longer Works

Air-Ice-Ocean Interaction, Turbulent Ocean Boundary Layer Exchange Processes, Miles McPhee 2008 Springer

Atmospheric Boundary Layers, Nature, Theory, and Application to Environmental Modelling and Security, A Baklanov, B Grisogono eds 2008 Springer

Computational Methods in Earthquake Engineering, Manolis Papadrakakis, Michalis Fragiadakis, Vagelis Plevris eds 2013 Springer

Convective and Advective Heat Transfer in Geological Systems, Chongbin Zhao, Bruce E Hobbs, Alison Ord 2008 Springer

Dictionary of geophysics, astrophysics, astronomy, Richard Matzner

Dynamics of Ice Sheets and Glaciers, Ralf Greve, Heinz Blatter 2009 Springer

Fog and Boundary Layer Clouds, Fog Visibility and Forecasting, Ismail Gultepe ed 2007 Springer

Full Seismic Waveform Modelling and Inversion, Andreas Fichtner 2011 Springer

Geothermics, Heat Flow in the Lithosphere, Vincenzo Pasquale, Massimo Verdoya, Paolo Chiozzi 2014 Springer

Guide to process based modeling of lakes and coastal seas, Anders Omstedt 2011 Springer

Introduction to Climate Modelling, Thomas Stocker 2011 Springer

Lagrangian Transport in Geophysical Jets and Waves, The Dynamical Systems Approach, R M Samelson, S Wiggins 2006 Springer

Mathematical Geoscience, Andrew Fowler 2011 Springer

Microflows and Nanoflows, Fundamentals and Simulation, George Karniadakis, Ali Beskok, Narayan Aluru 2005 Springer

Particle-Laden Flow, from Geophysical to Kolmogorov scales, Bernard J Geurts, Herman Clercx, Wim Uijttewaal 2007 Springer

Physics of Lakes, Volume 1, foundation of the math and physical background, Kolumban Hutter, Yongqi Wang, Irina P Chubarenko 2011 Springer

Physics of Lakes, Volume 2, Lakes as Oscillators,, Kolumban Hutter, Yongqi Wang, Irina P Chubarenko 2011 Springer

Physics of Lakes, Volume 3, Methods of Understanding Lakes as Components of Geophysical Environment, Kolumban Hunter, Yongqi Wang, Irina P. Chubarenko 2014 Springer

Rogue Waves in the Ocean, C Kharif, E Pelinovsky, A Slunyaev 2009 Springer

Transport and mixing in geophysical flows, Jeffre B Weiss, Antonello Provenzale eds 2008 Springer UColoradoBoulder Italy

43.2 Geophysics, Papers and Shorter Works

43.2.1 Lorenz

A comparative study on low-order, amplitude-equation and perturbation approaches in thermal convection, Bashar Albaalbaki, Roger E Khayat in Intl J Numer Meth in Fluids 2012 Canada

Extended phase diagram of the lorenz model, H R Dullin, S Schmidt, P H Richter, S K Grossmann in Intl J Bifurcation and Chaos 2007 UK Germany

Lorenz attractors and generalizations, geometric and topological aspects, Natalia Klinshpont ch 12 in Nonlinear Maps and their Applications Gracio et al ed 2011 workshop 2014 Springer

A nine-dimensional lorenz system to study high-dimensional chaos, Peter Reiterer, Claudia Lainscsek, F Shrrer, C Letellier, J Maquet in J Phys A Math 1998

Numerical bifurcation and hopf continuation of lorenz-stenflo system, Banshidhar Sahoo in Physica Scripta 2013 India

Wind reversals in turbulent raleigh-benard convection, Francisco Fontenele Araujo, Siegfried Grossmann, Detlef Lohse in arXiv 2005 Netherlands Germany

43.2.2 Various Geophysics

Application of evidence theory to quantify uncertainty in hurricane/typhoon track forecasts, S V Poroseva, J Letschert, M Yousuff Hussaini in Meterol Atmos Phys 2007 FSU France

A cusp catastrophe model of mid-long-term landslide evolution over low lattitude highlands of China, Yun Tao, Jie Cao, Jinming Hu, Zhicheng Dai in Geomorphology 2013 YunnanU in China

A software tool for regionally optimized analysis of imaging spectrometer data from deep and shallow waters, Peter Gege in Computers+Geosciences 2014 Germany

44 GERMAN

44.1 German, Books and Longer Works

Elementare Teilchen, Jorn Bleck-Neuhaus 2013

44.2 German, Papers and Shorter Works

Bemerkungen zur symemtrisierung an unterraumen des euklidischen raums, Kurt Leichtweiss in Archiv der Math 1978

Bodenfeuchtedaten aus Fernerkundung fur hydrologische Anwendungen, S Hasenauer, J Komma, J Parajka, W Wagner, G Bloschl in Ost Wasser-+Abfallw 2009

Carl Friedrich Gauss zwischen reiner und angewandter Mathematik, Peter Ullrich in Math Semesterber 2007 Koblenz Deutschland

Das differenzenverfahren fur singulare rand-eigenwertaufgaben gewohnlicher differentialgleichungen, Frank Natterer in Numer Math 1975

Das Induktions-Prinzip, Ulrich Felgner in Jahresber Dtsch Math-Ver 2012

Das Vorhersagerisiko der Sterblichkeitsentwicklung, Kann es durch eine geeignete Portfoliozusammensetzung minimiert werden?, Carmen Wetzel, Hans Joachim Zwiesler in Blatter DGVFM 2008

Der Einstromradius arteriovenoser, Schlingen, Auswirkungen auf

die Hamodynamik in der venosen Anastomose U Kruger, H Scholz in Gafasschirurgie 2008

Die Berechnung des Integral $\int_{-\infty}^{\infty}\left(\Pi_{k=1}^{n}\frac{\sin(a_k x)}{a_k x}\right)\cdot\cos(bx)dx$, Rolfdieter Frank Harald Riede Math Semesterber online only Mathematik in der Forschung

Die geometrische Definition des Lebesgueschen Integrals, Theo de Jong in Math Semesterber 2008 Mainz Deutschland

Die Mathematik des Alltaglichen, Das Tagebuch, von William Threlfall und Herbert Seifert, by Phillipp Ullmann in Math Semesterber 2008 Bad Soden Germany

Differenzenverfahren zur losung quasilinearer diffusionsgleichungen in zylindersymmetrie, Von Karl Graf Finck von Finckenstein 1973 chapter in Numerische, insbesondere approximationstheorietische Behandlung von Funktionalgleichungen

Dulatitat, Volumenprodukt und Mahlersche Ungleichungen, A C Thompson in Math Semesterber 2007 Canada

Effektive Abschatzungen fur den Gitterrest gewisser ebener und dreidimensionaler, Bereiche Ekkehard Kratzel, Werner Georg Nowak in Monatshefte fur Mathematik 2005 Wien Austria

Ein allgemeines Modell zur Analyse und Bewertung von Guaranteed Minimum Benefits in Fondspolicen, Daniel Bauer, Alexander Kling, Jochen Rus in Blatter DGVFM 2007

Ein Ansatz zur Losung von Spannungsrandwertproblemen bei flachen doppelt gekrummten Membranen und dunnen Schalen, G Brinkmann, Stuttgart in Ingenieur-Archiv 1978

Einfuhrung in moderne galerkin-randelementmethoden mit einer anwendung aus dem maschinenbau, H Andra in Forschung im Ingenieurwesen 1999

Entwicklung und Test einer Methode zur Simulation des Gesteinschneidens mit der Finiten Elemente Methode, Mikl, Tichy, Ecker, Antretter, Gimpel, Kargl, Pittino, Galler in BHM 2013

Erschopftheit und Invarianz beim Vergleich von Experimenten, Herbert Heyer in Z Wahrscheinlichkeitstheorie 1969

Eulers Identitaten fur die Werte von $\zeta(2n)$, Markus Brede in Math Semesterber 2007 Kassel Germany

Fehleranalyse fur die gaus-elimination zur berechnung der losung minimaler lange, Werner Sautter in Numerische Math 1978 Munchen

Grundlagenuntersuchung zu den Stromungsverhaltnissen in hochtourigen Turbinengleitlagern..., S Uhkotter, A Becker, H Czajka, S aus der Wiesche, S Brasseler, P Ehrhard in Forsch 2012

Herausarbeiten funktionaler und dynamischer Aspekte von Parameterdarstellungen durch die Erstellung von Computeranimationen, Andreas Filler in Math Semesterber 2007 Germany

Herleitung von Skalarprodukten aus Symmetrieprinzipien, W Soergel in Math Semesterber 2008 Freiburg Deutschland

Hilberts Grundlagen der Geometrie und ihre Stellung in der Geschichte der Grundlagendiskussion, Ulrisch Felgner in Jahresber Dtsch Math-Ver 2014 Tubingen Deutschland

Hydrodynamische Modellierung von Oberflachengewassern, H Gabriel Osterreichische Wasser- und Abfallwirtschaft 2009 Wien

Iterative losung und fehlerabschatzung in der ausgleichsrechnung, Von Peter Lauchli in Zeitschrift fur angewandte Math+Phys ZAMP 1959 Zurich

Kapitalmarktorientierte Ermittlung des Kapitalisierungszinssatzes zur Beteiligungsbewertung, Basiszinssatz, Dirk Hachmeister, Frederik Ruthardt in Control+Mgmt 2012

Kombinatorische Markov-Ketten, Rudolf Grubel in Math Semesterber 2014 Mathematik in Forschung und Anwendung

Leitlinie zur mathematischen Abschatzen der Migration von Einzelstoffen aus organischen Materialien in das Trinkwasser (Modellierungsleitlinie), in Bundesgesundheitsblatt... 2009

Magnetische Ladungen oder, warum es manchmal sinnvoll ist, etwas mathematisch zu modellieren, was es gar nicht gibt, Friedemann Kemm in Math Semesterber 2006

Mathematische Methoden in der Geothermie, M Augustin, W Freeden, C Gerhards, S Mohringer, I Ostermann in Math Semesterber 2012 Germany

Mathematische Modellierung in der Materialtheorie, J Betten in Forschung im Engr 2000 Aachen Germany

Mathematische Modellierung in der Systembiologie, Beispiel einer Simulation der desmoplastischen Stomareaktion, A Groh, A K Louis, F Weichert, T Richards, M Wagner in Pathologe 2008

Mehrparametrige und nichtlineare Eigenwertaufgaben, K P Hadeler Vorgelegt von L Collatz in Arch Rational Mech+Anal 1967 Hamburg

Messung hochdynamischer Krafte mithilfe eines elastooptischen Kraftsensors, B R Arminger, K Oppermann, B G Zagar in Elektrotechnik+Info 2010

Modellgestutzte Optimierung des Designs einer Batch-Rektifikation mit Mittelbehalter mittels eines Evolutionaren Algorithmus, M Leipold, S Gruetzmann, G Fieg in Forsch Ingen 2009

Modellierung und numerische Simulation der Thermoregulation von Fruh- und Neugeborenen, Michael Breus, Andreas Meister, Thomas Sonar in Math Semesterber 2006

Moderne Methoden der Ventilationsauslegung von Pumpspeichergeneratoren, E Farnleitner, G Kastner in Elektrotechnik+Info 2010

Monotonieeigenschaften von diskretisierungen des dirichletprob-

lems quasilinearer elliptischer differentialgleichungen, Von W Tornig 1973 in Numerische Book

Numerische Berechnung von Hochdruckanlagen, global betrachtet, lokal verbessert, Roman Gabl, Stefan Achleitner, Bernhard Gems, Johann Neuner, Markus Aufleger in Osterr Wasser- und Abfallw 2013

Numerische Modellierung der Grundwasserstromung im Einzugsgebiegt der Gallusquelle unter Festlegung eines Drainagesystems, Ulf Mohrlok in Grundwasser Zeitschrift 2014

Ordinalzahlen in der Analysis and Mastheorie, Oliver Deiser in Math Semesterber 2007 Berlin Germany

Poincare's "vierte Geometrie", Philippe Nabonnand in Math Semesterber 2014

Polytope mit vielen splits und ihre sekundarfacher, Michael Joswig, Thilo Rorig in Mathematische Bildergalerie Math Semesterber 2012 Darmstadt Berlin Deutschland

Populationsmodelle, mathematische modellierung an einem fallbeispeil, B Gotzen, V Liebscher, S Walcher in Math Semesterber 2008 Aachen Monschau Germany

Punktprozesse in der statistischen Risikoanalyse, Winfried Stute in Jahresber Dtsch Math-Ver 2014 Giesen Deutschland

Punktprozesse mit wechselwirkung, Nguyen Xuan Xanh, Hans Zessin in Z Wahrscheinlichkeitstheorie 1976

Signaltheoretische Analyse histologischer Daten im Ortsfrequenzraum, F Weichert, A Groh, A Smamaa, T Richards, S Awad, R Linder, C A Landes, M Wagner in Pathologe 2008

Simulation und Optimierung der Prozesskette zur Herstellung profilierter Dräthe durch Drahtziehen und Profilwalzen, Robert Kaiser, Thomas Hatzenbichler, Bruno Buchmayr in BHM 2014

Spezille Interpolationsquadraturen Vom Gauss'schen Typ, von Hermann Engels 1973 chapter in Numerische inbesondere approximationsheoretische Behandlung von Funktionalgleichungen

Superrechner in der Kosmologie, Volker Springel in Info Spektrum 2009 Max Planck in Munchen

Symmetrien im instationaren Stromungsfeld eines Doppelschneckenmischers, G Bohme, J Stock in Forsch Ingenieurwes 2010 Hamburg Deutschland

Symmetrische Flachen mit gewohnlichen Doppelpunkten, Alessandra Sarti in Math Semesterber 2008 Gutenberg in Mainz Germany

Uber Abbildung von Mannigfaltigkeiten, von L E J Brouwer 1911

Uber die Existenz von unendlich vielen periodischen losungen einer einfachen temperaturregelung, Q Zheng in Numerische Math 1989 Munchen Germany

Uber die gute Modellierbarkeit bestimmter Wachstumsprozesse,

Michael Burker in Math Semesterber 2007 Metzingen

Uber Eigenwerte, Integrale und $\frac{\pi^2}{6}$*, Die Idee der Spurformel*, Daniel Grieser in Math Semesterber 2007 Oldenburg Germany

Uber ein mehrstufiges iterationsverfahren zur losung von linearen gleichungen, Von L Bittner in Numerische Math 1964

Uber mehrstufige iterationsverfahren und die losung der hammersteinschen gleichung, Eckart Gekeler in Numer Math 1972

Unlosbarkeit der Gleichung $\alpha x^n + \beta y^n = z^n$ *und Gleichverteilung von* $\sqrt[n]{\alpha x^n + \beta y^n}$, by Klaus Langmann in Monashefte fur Mathematik 2004 Munster Germany

Unter- und uberbestimmte Systeme von Differentialgleichungen, Werner M Seiler in Math Semesterber 2010 Kassel Deutschland

Untersuchung der Phasengrenze eines fluiddynamischen Systems mit experimentellen und numerischen Methoden, A Zucht, A Muller, G Bohme in Forsch Ingenieurwes 2008 Hamburg

Verzerrung des Wahlerwillens als Folge der Sitzzuteilung bei Verhaltniswahlen, Udo Schwingenschlogl in Math Semesterber 2008 Augsburg Germany

Zur Berechnung Periodischer Losungen Bei Parabolischen Randwertproblemen, von Eckart Gekeler 1973 chapter in Numerische Book

Zur dreidimensionalen Materialmodellierung von Fichtenholz mit-

tles eines Mehrflachen- Plastizitatsmodells, Jorg Schmidt, Michael Kaliske in Holz als Roh- und Werkstoff 2006

Zur Entscheidungsunterstutzung bei netzeffektbasierten Gutern, Karl-Heinz Luke, Klaus Ambrosi, Felix Hahne in Operations Research Proceedings 2006 2007

Zur Konvergenz des SSOR-Verfahrens fur nichtlineare Gleichungssysteme, Gotz Alefeld, Peter Volkmann in Numerische Math 1986 Deutschland

Zur Zahlentheorie der Greiechen, Teil I Euklids Fundamentalsatz der Arithmetik, Franz Lemmermeyer in Math Semesterber 2008 Jagstzell Deutschland

45 GRAPH THEORY and DISCRETE MATH

45.1 Graph Theory and Discrete Math, Books and Longer Works

Algebraic Combinatorics, Orlik Welker 2007 Springer

Algorithmic Aspects of Graph Connectivity, Hiroshi Nagamochi, Toshihide Ibaraki 2008 Cambridge

Combinatorial games, Tic-Tac-Toe Theory, Jozsef Beck 2008 Cambridge

Combinatorial Matrix Theory, Richard A Brualdi, Herbert J Ryser 1991 Cambridge

Combinatorics and Graph Theory, John Harris, Jeffry Hirst, Michael Mossinghoff 2008 Springer

Computational Geometry, Graphs and Applications, Jin Akiyama, Jiang Bo, Mikio Kano, Xuehou Tan eds 2011 Springer China

Concrete Mathematics, A Foundation for Computer Science, Ronald Graham, Donald Knuth, Oren Patashnik 1994 Addison-Wesley

A Course in Topological Combinatorics, Mark de Longueville 2013 Springer

Digraphs, Theory, Algorithms and Applications, Jorgen Bang-Jensen, Gregory Z Gutin 2009 Springer

Discrete Calculus, Applied Analysis on Graphs for Computational Science, Leo Grady, Jonathan Polimeni 2010 Springer

Discrete Mathematics and Its Applications, Kenneth H Rosen 2007 McGraw Hill

Dynamical Systems, Graphs, and Algorithms, George Osipenko 2007 Springer

Factors and Factorizations of Graphs, Proof Techniques in Factor Theory, Jin Akiyama, Mikio Kano 2011 Springer

Fuzzy Graphs and Fuzzy Hypergraphs, John N Mordeson, Premchand S Nair 2000 Springer

Graph Energy, Xueliang Li, Yongtang Shi, Ivan Gutman 2012 Springer

Graph realization and low-rank matrix completion, Mihai Cucuringu dissertation 2012 Princeton

Graph-Theoretic Concepts in Computer Science, Christophe Paul, Michel Habib eds 2010 Springer France

Graph-Theoretic Concepts in Computer Science, Petr Kolman, Jan Kratochvil eds 2011 Springer Czech Rep

Graphs and matrices, R B Bapat 2011 Springer

Graphs, Networks and Algorithms, Dieter Jungnickel 2013 Springer

Hypergraph Theory, Alain Bretto 2013 Springer

Rainbow Connections of Graphs, Xueliang Li, Yuefang Sun 2012 Springer

Random Walks and Diffusions on Graphs and Databases, Philippe Blanchard, Dimitri Volchenkov 2011 Springer

Simplicial Complexes of Graphs, Jakob Jonsson 2008 Springer

Spectra of Graphs, Andries Brouwer, Willem Haemers 2012 Springer

Thirty Essays on Geometric Graph Theory, Janos Pach ed 2013 Springer

Towards topological methods for complex scalar data, Issam Ibrahim Safa dissertation 2011 OhioStateU

45.2 Graph Theory and Discrete Math, Papers and Shorter Works

45.2.1 Discrete Posets (Partially Ordered Sets)

(2+2)-free posets, ascent sequences and pattern avoiding permutations, Mireille Bousquet-Melou, Anders Claesson, Mark Dukes, Sergey Kitaev in J Comb Theory A 2010 Talence France Reykjavik

The absolute order on the symmetric group, constructible partially ordered sets and cohen-macaulay complexes, Christos A. Athanasiadis, Myrto Kallipoliti in J Comb Theory A 2008 Athens Greece

Adjacency posets of planar graphs, Stefan Felsner, Ching Man Li, William Trotter in Discrete Math 2010 Germany Atlanta GA

Algebraic structures on double and plane posets, Loic Foissy J Algebr Comb 2013

Arc permutations, Sergi Elizalde, Yuval Roichman in J Algebr Comb 2012

Bipartite q-polynomial distance-regular graphs and uniform posets, Stefko Miklavic, Paul Terwilliger in J Algebr Comb 2013

Characterizations of the convex geometries arising from the double shellings of posets, Kenji Kashiwabara, Masataka Nakamura in Discrete Math 2010 U Tokyo Japan

Combinatorial functional and differential equations applied to differential posets, Matias Menni in Discrete Math 2008 La Plata Argentina

Constructing colorings for diagrams, Stefan Felsner, Jens Gustedt, Michel Morvan, Jean-Xavier Rampon in Discrete Appl Math 1994 Germany France

Counting embeddings of a chain into a tree, Malgorzata Kuchta, Michal Morayne, Jaroslaw Niemiec in Discrete Math 2005 Poland

Counting linear extension majority cycles in partially ordered sets on up to 13 elements, K De Loof, B De Baets, H De Meyer in

Comp+Math w Appl 2010 Gent Belgium

Descents, quasi-symmetric functions, robinson-schensted for posets, and the chromatic symmetric function, Timothy Chow in J Algebr Comb 1999

Dimension-2 poset competition numbers and dimension-2 poset double competition numbers, Yaokun Wu, Junjie Lu in Discrete Appl Math 2010 Shanghai

Edge ranking and searching in partial orders, Dariusz Dereniowski in Discrete Appl Math 2008 Dept Algorithms Sys Modeling Gdarisk Poland

Efficient algorithms on distributive lattices, Michel Habib, Raoul Medina, Lhouari Nourine, George Steiner in Discrete Appl Math 2001 France Canada

Facets of the generalized permutahedron of a poset, Annelie von Arnim, Andreas Schulz in Discrete Appl Math 1997 Germany

Finite eulerian posets which are binomial, sheffer or triangular, Hoda Bidkhori in J Comb Theory A 2012 North Carolina

Finitely presented partially ordered abelian groups, J Mark Ettinger in Discrete Math 1997 Madison WI Los Alamos NM

Gelfand-tsetlin polytopes and feigin-fourier-littelmann-vinberg polytopes as marked poset polytopes, Federico Ardila, Thomas Bliem, Dido Salazar in J Comb Theory A 2011 San Franscisco

Graphical partially ordered sets, L Borzacchini in Discrete Appl Math 1987 Bari Italy

Introduction to partially ordered patterns, Sergey Kitaev in Discrete Appl Math 2007 Reykjavik

Level Eulerian Posets, Richard Ehrenborg, Gabor Hetyel, Margaret Readdy in Graphs and Comb 2013 UKentucky UNorthCarolina

The local kostat-PBW ordering, Robert W. Deckhart in Discrete Math 1991 Kansas

Methods for nesting rank 3 normalized matching rank-unimodal posets, Tim Hsu, Mark Logan, Shahriar Shahriari in Discrete Math 2009 San Jose CA Minnesota Claremont CA

Miniscule posets from neighbourly graph sequences, N J Wildberger in European J of Combinatorics 2003 Sydney Australia

N-free posets as generalizations of series-parallel posets, M Habib, R Jegou in Discrete Appl Math 1985 France

Note m-chain graphs of posets, Jeno Lehel, F.R. McMorris, Debra D. Schott in Discrete Math 1989 Louisville KY Green Bay WI

Notes nested chain partitions of LYM posets, Yi Wang in Discrete Appl Math 2005 Dalian China

On coxeter spectral study of finite posets using computer algebra

tools, Marcin Gasiorek, Daniel Simson, Katarzyna Zajac in Electronic Notes in Discrete Math 2013 Poland

On posets of m-ary words, Gustav Burosch, Hans-Dietrich O.F. Gronau, Jean-Marie Laborde, Ingo Warnke in Discrete Math 1996 Germany France

On posets whose products are macaulay, Sergei L. Bezrukov in J Comt Theory A 1998 Paderborn Germany

On some complexity properties of n-free posets and posets with bounded decomposition diameter, M. Habib R.H. Mohring in Discrete Math 1987 France Germany

On some simple degree conditions that guarantee the upper bound on the chromatic (choice) number of random graphs, Van H Vu in J Graph Theor 1999 Yale Princeton

On the cohen-macaulay connectivity of supersolvable lattices and the homotopy type of posets, Volkmar Welker in Eurpo. J. Combinatorics 1995 Inst Experimental Math Essen Germany

On the orthogonal product of simplices and direct products of truncated boolean lattices, Uwe Leck in Discrete Math 2003 Germany

The order-interval hypergraph of a finite poset and the konig property, Isma Bouchemakh, Konrad Engel in Discrete Math 1997 Algerie Germany

Order-preserving maps from a poset to a chain, the order polytope, and the Todd class of the associated toric variety, Hugh Thomas in European J of Comb 2003 Canada

Partially ordered patterns and compositions, Silvia Heubach, Sergey Kitaev, Toufik Mansour 2006 in arXiv Los Angeles Reykjavik Haifa

Polygon posets and the weak order of coxeter groups, Kimmo Eriksson in J Algebr Comb 1995

Poset edge-labellings and left modularity, Peter McNamara, Hugh Thomas in Euro J Comb 2006 Canada

Poset graphs and the lattice of graph annihilators, John LaGrange, Kyle Roy in Discrete Math 2013 Kentucky

The poset of bipartitions, Gabor Hetyei, Christian Krattenthaler in European J Comb 2011 North Carolina Vienna Austria

The poset of positive roots and its relatives, Dmitri I Panyushev in J Algebr Comb 2006

A poset structure on quasifibonacci partitions, Hansheng Diao in J Comb Theory A 2009 MIT

Retractions onto series-parallel posets, Victor Dalmau, Andrei Krokhin, Benoit Larose in Discrete Math 2008 Spain UK Canada

A self paired hopf algebra on double posets and a littlewood-richardson rule, Claudia Malvenuto, Christophe Reutenauer in J

Comb Theory A 2011 Roma Italy Montreal Quebec Canada

Sharply transitive partially ordered sets, Gerhard Behrendt in Discrete Math 1986 Tubingen Germany

A signed analog of the birkhoff transform, Samuel K Hsiao in J Comb Theory A 2006 Ann Arbor MI

Signed differential posets and sign-imbalance, Thomas Lam in J Comb Theory A 2007 Harvard

Structures characterizing partially ordered sets, and their automorphism groups, Russell Belding in Discrete Math 1979 Annapolis MD

Trees of integral triangles with given rectangular defect, Andy Miller in Discrete Math 2013 U Oklahoma

Weak sense of direction labelings and graph embeddings, Christine Cheng, Ichiro Suzuki in Discrete Appl Math 2011 Milwaukee WI

Weakly transitive orientations, hasse diagrams and string graphs, Matthias Middendorf, Frank Pfeiffer in Discrete Math 1993 Koln Germany

When linear and weak discrepancy are equal, David Howard, Stephen Young in Discrete Math 2011 GA Tech Atlanta

45.2.2 Various Graph Theory and Discrete Math

[1,1,t]-colorings of complete graphs, Arnfried Kemnitz, Massimiliano Marangio, Zsolt Tuza in Graphs+Comb 2013 Germany Hungary

Advances in the merit factor problem for binary sequences, Jonathan Jedwab, Daniel Katz, Kai-Uwe Schmidt in J Comb Theory A 2013 Canada Germany

Analysis over discrete spaces, David Shale in J Functional Analysis 1974 UPenn

Approximate min-max theorems for steiner rooted-orientations of graphs and hypergraphs, Tams Kiraly, Lap Chi Lau in J Comb Theory 2008 Hungary Hong Kong

Bitableaux and zero sets of dual canonical basis elements, Brendon Rhoades, Mark Skandera in Annals of Combinatorics 2011 USC LehighU

Classifying descents according to equivalence mod k, Sergey Kitaev, Jeffrey Remmel in arXiv 2006 Reykjavik San Diego

Classifying descents according to parity, Sergey Kitaev, Jeffrey Remmel in Annals of Combinatorics 2007 Reykjavik San Diego

Clusters generating functions and asymptotics for consecutive patterns in permutations, Sergi Elizalde, Marc Noy in Adv Appl Math 2012

Collective tree spanners of graphs, Feodor Dragan, Chenyu Yan, Irina Lomonosov in SIAM J Discrete Math 2006 KentState Hiram-College

Combinatorial algorithms for the expansion of various products of schur functions, Jeffrey Remmel in Acta Applicandae Math 1990 UCSanDiego

Combinatorial yamabe flow on surfaces, Feng Luo in arXiv 2003 Rutgers

A computational analysis of the tournament equilibrium set, Felix Brandt, Felix Fischer, Paul Harrenstein, Maximilian Mair in Soc Choice Welf 2009 Germany

Counting descents rises and levels with prescribed first element in words, Sergey Kitaev, Toufik Mansour, Jeff Remmel in Discrete Math Theoretical CS 2008 Reykjavik Haifa Los Angeles

Crucial abelian k-power-free words, Amy Glen, Bjarni Halldorsson, Sergey Kitaev in Discrete Math Theoretical CS 2010 Perth WA Reykjavik

Cycle lengths in sparse graphs, Benny Sudakov, Jacques Verstraete in Combinatorica 2008

The de bruijn-erdos theorem for hypergraphs, Noga Alon, Keith Mellinger, Dhruv Mubayi, Jacques Verstraete in Des Codes Cryptogr 2012

Degree sequences of k-multi-hypertournaments, Pirzada S in Appl Math J Chinese Univ 2009

Degree series of the 3-harmonic graphs, Liu Mu-huo, Liu Bo-lian in Appl Math J Chinese Univ 2008

Directed graph limits and directed threshold graphs, Derek Boeckner 2013 UNebraska

Drawing disconnected graphs on the klein bottle, Laurent Beaudou, Antoine Gerbaud, Roland Grappe, Frederic Palesi in Graphs and Combinatorics 2010

Dynkin diagram classification of lambda-miniscule bruhat lattices and d-complete posets, Robert A. Proctor in J Algebr Comb 1999

Efficient synthesis of a class of boolean programs from I-O data, application to genetic networks, Ruth Charney, Jacques Cohen, Aurelien Rizk in Discrete Appl Math 2011

The enumerative geometry of plane cubics II nodal and cuspidal cubics, Paolo Aluffi in Mathematische Annalen 1991 OklahomaStateU

Extremal properties of bases for representations of semisimple lie algebras, Robert Donnelly in J Algebr Comb 2003

Generalized perfect domination in graphs, B Chaluvaraju, K A Vidya in J Comb Optim 2014 India

Generic flows on 3-manifolds, Carlo Petronio in arXiv 2012 Italy

The geodesic diameter of polygonal domains, Sang Won Bae, Matias Korman, Yoshio Okamoto in Discrete Comput Geom 2013

Graph hypersurfaces and a dichotomy in the grothendieck ring, Paolo Aluffi, Matilde Marcolli in Lett Math Phys 2011 FSU Caltech

Hamiltonian tetrahedralizations with steiner points, Escalona Fabila-Monroy Urrutia in arXiv 2012

Improved bounds for erdos matching conjecture, Peter Frankl in J Combinatorial Theory 2013 Renyi Inst of Math Budapest Hungary

Intersection numbers of polygon spaces, Jose Agapito, Leonor Godinho in Trans Amer Math Soc 2009 Portugal

Linear and nonlinear theories of discrete analytic functions, integrable structure and isomonodromic green's function, Aleander Bobenko, Christian Mercat, Yuri Suris in arXiv 2004

Linear extension sums as valuations on cones, Adrien Boussicault, Valentin Feray, Alain Lascoux, Victor Reiner in J Algebr Comb 2012

The magic of universal cycles, Katie Johnson UNEBRASKA 2011

Many collinear k-tuples with no k+1 collinear points, Jozsef Solymosi, Milos Stojakovic in Discrete Comput Geom 2013

The minimal covering set in large tournaments, Alex Scott, Mark Fey in Soc Choice Welf 2010 UK USA

The most and least avoided consecutive patterns, Sergi Elizalde 2013 in Proc. London Math. Soc.-2013-Elizalde-957-79

Nested colorings of graphs, David Cook II in arXiv 2013 Notre Dame

Non-rigidity of spherical inversive distance circle packings, Jiming Man, Jean-Marc Schlenker in Discrete Comput Geom 2012

On $K_{1,k}$-factorization of bipartite multigraphs, Wang Jian in Appl Math J Chinese Univ 2008

On lambda-harmonic graphs, Liu Mu-huo, Liu Bo-lian in Appl Math J Chinese Univ 2009 Guangzhou

On modular edge-graceful graphs, Futaba Fujie-Okamoto, Ryan Jones, Kyle Kolasinski, Ping Zhang in Graphs+Comb 2013 UWisconsin WesternMichiganU

On the threshold for k-regular subgraphs of random graphs, Pawel Pralat, Jacques Verstraete, Nicholas Wormald in Combinatorica 2011

A probabilitistic approach to consecutive pattern avoiding in permutations, Guillem Perarnau in J Combinatorial Theory 2013

Promotion and cyclic sieving via webs, T Kyle Petersen, Pavlo Pylyavskyy, Brendon Rhoades in J Algebr Comb 2009 UMichigan

UCBerkeley

Random graphs and covering graphs of posets, Bela Bollobas, Graham Brightwell in Order 1986 Cambridge Prague

Random surfaces, Scott Sheffield in arXiv 2006

Rigidity of branch groups acting on rooted trees, Yaroslav Lavreniuk, Volodymyr Nekrashevych in Geometriae Dedicata 2002 Ukraine

Robust tensegrity polygons, Janos Geleji, Tibor Jordan in Discrete Comput Geom 2013

Search for all minimal paths in a general large flow network, Shin-Guang Chen, Yi-Kuei Lin in IEEE Trans on Reliability 2012 Taiwan

Sharp bounds of the zagreb indices of k-trees, John Estes, Bing Wei in J Comb Optim 2014 UMississippi

Signed roman domination in graphs, H Abdollahzadeh Ahangar, Michael A Henning, Christian Lowenstein, Yancai Zhao, Vladimir Samodivkin in J Comb Optim 2014 Iran SouthAfrica China Bulgaria

Sparse quasi-random graphs, Fan Chung, Ronald Graham in Combinatorica 2002

Sparsity, Graphs, Structures, and Algorithms, Jaroslav Nesetril, Patrice Ossona de Mendez 2012 Springer

The stable trees are nested, Nicolas Curien, Benedicte Haas in Probab Theory Relat Fields 2013 Paris

Sublinear fully distributed partition with Applications, Dierbel Mosbah Zemmari in Theory Comput Syst 2010

Temperley-lieb immanants, Brendon Rhoades, Mark Skandera in Annals of Combinatorics 2005 Dartmouth

Topological finiteness for edge-vertex enumeration, Ed Swartz in Adv in Math 2008 Cornell

Vertex partitions of r-edge-colored graphs, Jin Ze-min, Li Xue-liang in Appl Math J Chinese Univ 2008

46 HAMILTONIAN SYSTEMS

46.1 Hamilonian Systems, Books and Longer Works

Essentials of Hamiltonian Dynamics, Lowenstein 2012 Cambridge

Geometry and Topology in Hamiltonian Dynamics and Statistical Mechanics, Marco Pettini 2007 Springer

Hamiltonian and Lagrangian Flows on Center Manifolds with Applications to Elliptic Variational Problems, Alexander Mielke 1991 Springer

Hamiltonian Chaos Beyond the KAM Theory, Albert C J Luo, Valentin Afraimovich 2011 Springer

Hamiltonian Dynamics Theory and Applications, Giancarlo Benettin, Jacques Henrard, Sergei Kuksin Lectures Cetraro Italy 1999 2005 Springer

Hamiltonian Reduction by Stages, Jerrold Marsden, Gerard Misiolek, Juan-Pablo Ortega, Matthew Perlmutter, Tudor S Ratiu 2007 Springer

Introduction to Hamiltonian Dynamical Systems and the N-Body Problem, Kenneth Meyer, Glen Hall, Dan Offin 2009 Springer

Introduction to the Perturbation Theory of Hamiltonian Systems, Dmitry Treschev, Oleg Zubelevich 2010 Springer

Lagrangian and hamiltonian geometries, applications to analytical mechanics, Radu Miron in arXiv 2012

Metamorphoses of Hamiltonian Systems with Symmetries, Konstantinos Efstathiou 2005 Springer

Simulating Hamiltonian Dynamics, Benedict Leimkuhler, Sebastian Reich 2005 Cambridge

Symplectic Geometric Algorithms for Hamiltonian Systems, Kang Feng, Mengzhao Qin 2010 Springer

Symplectic Geometry Integrable Hamiltonian Systems, Michele Audin, Ana Cannas da Silva, Eugene Lerman 2003 Birkhauser

Symplectic Invariants and Hamiltonian Dynamics, Helmut Hofer, Eduard Zehnder 1994 Birkhauser

Variational Methods Applications to Nonlinear Partial Differential Equations and Hamiltonian Systems, Michael Struwe 2008 Springer

46.2 Hamiltonian Systems, Papers and Shorter Works

Achieving brouwer's law with implicit runge-kutta methods, E Hairer, R I McLachlan, A Razakarivony in BIT Numer Math 2008 Geneve in Switzerland, New Zealand

Action with acceleration I, euclidean hamiltonian and path in-

tegral, Belal E Baaquie in arXiv 2012 Singapore

Action with acceleration II, euclidean hamiltonian and jordan blocks, Belal E Baaquie in arXiv 2012 Singapore

Algebraic methods for determning hamiltonian hopf bifurcations in three-degree-of-freedom systems, Heinz Hansmann, Jan-Cees van der Meer in J Dyn Diff Equat 2005 Aachen in Germany, Eindhoven in Netherlands

Almost periodic solutions of one dimensional schrodinger equation with the external parameters, Jiansheng Geng, Xindong Xu in J Dyn Diff Equat 2013 Nanjing in China, Naples in Italy

Application of new dynamical spectra of orbits in Hamiltonian systems, Euaggelos E Zotos in arXiv 2012 Thessaloniki in Greece

Bifurcation and coalescence of a plethora of homoclinic orbits for a hamiltonian system, B Buffoni, A R Champneys, J F Toland in J. Dyn Diff Equat 1996 England

Bifurcations on a five-parameter family of planar vector field, Dongmei Xiao in J Dyn Diff Equat 2008 Shanghai in China

Bihamiltonian structures and stäckel seperability, A Ibort, F Magri, G Marmo in J of Geometry+Phys 2000 Madrid in Spain, Milano and Naples in Italy

A cartesian classical second-quantized many-electron hamiltonian for use with the semiclassical initial value representation,

Bin Li, William H Miller in J Chem Physics 2012 UCBerkeley

Chaos and Complexity in Astrophysics, Oded Regev 2006, (Book Review), reviewer Weiss in Theor Comput Fluid Dyn 2008 Cambridge

Codimension 3 nontwisted double homoclinic loops bifurcations with resonant eigenvalues, Weipeng Zhang, Deming Zhu, Dan Liu in J Dyn Diff Equat 2008 Shanghai and Changchun in China

Completely integrable bi-hamiltonian systems, Rui L Fernandes in J Dyn and Diff Equat 1994 UMinnesota, Lisbon in Portugal

The complexity of the separable hamiltonian problem, Andre Chailloux, Or Sattath in arXiv 2011 Paris, UCBerkeley

Computing periodic deflating subspaces associated with a specified set of eigenvalues, R Granat, B Kagstrom, D Kressner in BIT Numer Math 2007 Umea in Sweden, Zagreb in Croatia

Connectivity and design of planar global attractors of sturm type, III, small and platonic examples, Bernold Fiedler, Carlos Rocha in J Dyn Diff Equat 2010 Berlin in Germany, Liboa in Portugal

Conservation of invariants by symmetric multistep cosine methods for second-order partial differential equations, B Cano in BIT Numer Math 2013 Valladolid in Spain

Construction of hamiltonian-minimal lagrangian submanifolds in complex euclidean space, Henri Anciaux, Ildefonso Castro in

Results in Mathematics 2011 Sao Paulo in Brazil, Jaen in Spain

Cylindrical representation for multiband hamiltonians, Eduard Takhtamirov in J Applied Physics 2012 Canada

Differentiability of parabolic semi-flows in L^P-spaces and inertial manifolds, Herbert Koch in J Dyn Diff Equat 2000 Heidelberg in Germany

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Existence of finite-time hyperbolic trajectories for planar hamiltonian flows, Luu Hoang Duc, Stefan Siegmund in J Dyn Diff Equat 2011 Hanoi in Vietnam, Dresden in Germany

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Explicit symplectic multidimensional exponential fitting modified runge-kutta-nystrom methods, Xinyuan Wu, Bin Wang, Jianlin Xia in BIT Numer Math 2012 Nanjing in China, PurdueU in Indiana

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Generalized hamiltonian-based algorithm for rigorous equilibrium molecular dynamics simulation in the canonical ensemble, David J Keffer, Chunggi Baig, Parag Adhangale, Brian J Edwards in J Non-Newtonian Fluid Mech 2008 UTennessee Greece TulaneU

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S Mirrahimi, P E Souganidis in NoDEA 2011 France, UChicago

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On the hamiltonian hopf bifurcations in the 3D henon-heiles family, Heinz Hansmann, Jan-Cees van der Meer in J Dyn and Diff Equat 2002 Princeton, Aachen in Germany, Eindhoven in Netherlands

On the selection of the classical limit for potentials with BV derivatives, Agissilaos Athanassoulis, Thierry Paul in J Dyn Diff Equat 2013 Heraklion in Greece, France

On the spin separation of algebraic two-component relativistic hamiltonians, Zhendong Li, Yunlong Xiao, Wenjian Liu in J of chemical physics 2012 Beijing in China

One-stage exponential integrators for nonlinear schrodinger equations over long times, David Cohen, Ludwig Gauckler in BIT Numer Math 2012 Basel in Switzerland, Berlin in Germany

Optimal control of open quantum systems, Erik Asplund, Thorsten Kluner in Jof chemical physics 2012 Oldenburg in Germany

Periodic problems with double resonance, Giuseppina Barletta, Nikolaos S Papageorgiou in NoDEA 2012 Reggio Calabria in Italy, Athens in Greece

Periodic solutions of symmetric perturbations of gravitational potentials, Claudio Vidal in J Dyn Diff Equat 2005 Brasil

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Rational approximation to trigonometric operators, V Grimm, M Hochbruck in BIT Numer Math 2008 Dusseldorf in Germany

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Review of AdS/CFT integrability, an overview, Niklas Beisert et al in Lett Math Phys 2012 Germany, South Korea, Oxford, Prince-

ton, Hungary, Switzerland, France, Sweden, UK, Russia, Poland, Denmark, UMiami, PennsylvaniaStateU, UCSantaBarbara

Rotation number and exponential dichotomy for linear hamiltonian systems, from theoretical to numerical results, Cinzia Elia, Roberta Fabbri in J Dyn Diff Equat 2013 Bari and Firenze in Italy

The solar system between order and chaos, Stefano Marmi in Lettera Matematica 2013 Pisa in Italy

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Stability of equilibrium solutions of autonomous and periodic hamiltonian systems with n-degrees of freedom in the case of single resonance, F dos Santos, Jose E Mansilla, C Vidal in J Dyn Diff Equat 2010 Brazil, Chile

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Structural stability of planar polynomial foliations, Xavier Jarque, Jaume Llibre, Douglas S Shafer in J Dyn Diff Equat 2005 Barcelona in Spain, UNorthCarolinaCharlotte

Sub-harmonics for two-dimensional hamiltonian systems, Alberto Abbondandolo in NoDEA 1999 Pisa in Italy

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Total hamiltonian and extended hamiltonian for constrained hamilton systems, Yong-Long Wang, Chuan-Cong Wang, Xue0Feng Ning, Shu-Tao Ai, Hong-Zhe Pan, Tong-Song Jiang in Int J Theor Phys 2008 Linyi in China

Travelling breathers in klein-gordon lattices as homoclinic orbits to p-tori, Yannick Sire in J Dyn Diff Equat 2005 France

Trivial low energy states for commuting hamiltonians and the quantum PCP conjecture, Matthew B Hastings in arXiv 2012 DukeU in North Carolina, UCSantaBarbara

Unique orbital normal form for vector fields of hopf-zero singularity, Guoting Chen, Duo Wang, Jiazhong Yang in J Dyn Diff Equat 2005 France, Beijing in China

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Vortex counting and lagrangian 3-manifolds, Tudor Dimofte, Sergei Gukov, Lotte Hollands in Lett Math Phys 2011 Caltech, UCSantaBarbara

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Webs, veronese curves, and bihamiltonian systems, Israel M Gelfand, Ilya Zakharevich in J of Functional Analysis 1991 Rutgers Harvard

47 INDUSTRIAL and APPLIED MATH

47.1 Industrial and Applied Math, Books and Longer Works

An introduction to Optimization, Edwin K P Chong, Stanislaw H Zak

Application of kraljic's purchasing portfolio matrix in an undeveloped logistics infrastructure, the staatsolie suriname case, Cees Gelderman, Dennis Mac Donald 2008 Netherlands

Capacity and Inventory Planning for Make-to-Order Production Systems, Impact of Customer Required Lead Time Distribution, Klaus Altendorfer 2014 Springer

Control of nonlinear systems using sugeno fuzzy approximators, Mohanad Alata dissertation 2001 ConcordiaU

Cooperative control of multi-agent systems, optimal and adaptive design approaches, Frank L Lewis, Hongwei Zhang, Kristian Hengster-Movric, Abhijit Das 2014 Springer

Data Correcting Approaches in Combinatorial Optimization, Boris Goldengorin, Panos Pardalos 2012 Springer

Decision policies for production networks, Dieter Armbruster, Karl G Kempf eds Springer

Demand Flexibility in Supply Chain Planning, Joseph Geunes Springer

Discrete Control Systems, Yoshifumi Okuyama 2014 Springer

Distributed Model Predictive Control Made Easy, Jose M Maestre, Rudy R Negenborn eds 2014 Springer

Dynamics in Logistics, eds Hans-Jorg Kreowski, Bernd Scholz-Reiter, Klaus-Dieter Thoben Springer 2013

Essays in Production, Project Planning+Scheduling, Festschrift in Honor of Salah Elmaghraby, P Simin Pulat, Subhash Sarin, Reha Uzsoy eds 2014 Springer

Evolutionary Paths Towards the Mobility Patterns of the Future, Michael Hulsmann, Dirk Fornahl eds 2014 Springer

Extremal Polynomials and Riemann Surfaces, Andrei Bogatyrev 2012 Springer

Fair Revenue Sharing Mechanisms for Strategic Passenger Airline Alliances, Demet Cetiner 2013 Springer

Flow Shop Scheduling, Hamilton Emmons, George Vairaktarakis 2013 Springer

Handbook of EOQ Inventory Problems, Stochastic+Deterministic Models+Appl, Tsan-Ming Choi ed 2014 Springer

Handbook of Newsvendor Problems, Tsan-Ming Choi 2012 Springer

Handbook of Stochastic Models and Analysis of Manufacturing System Operations, J MacGregor Smith, Baris Tan eds 2013 Springer

Humanitarian and Relief Logistics, Vasileios Zeimpekis, Soumia Ichoua, Ioannis Minis eds 2013 Springer

Introduction to modern traffic flow theory and control, the long road to three-phase traffic theory, Boris S Kerner 2009 Springer

Linear Programming Foundations+Extensions, Robert J Vanderbei 2014 Springer

Manufacturing and Service Enterprise with Risks II Physics+Economics of Management, Masayuki Matsui 2014 Springer

Mathematical Aspects of Network Routing Optimization, Carlos A S Oliveira Panos M Pardalos 2011 Springer

Mathematical Modeling, Stefan Heinz 2011 Springer

Mixed Integer Nonlinear Programming, Jon Lee, Sven Leyffer eds 2012 Springer

Model-based control of logistics processes in volatile environments, Jorn Schonberger Springer

Models+Methods in Economics+Management Science, Essays in Honor of Charles S Tapiero, Fouad El Ouardighi, Konstantin Kogan eds 2014 Springer

Operations Research, H A Eiselt, Carl-Louis Sandblom Springer

Operations Research Problems, Statements+Solutions, Raul Poler, Josefa Mula, Manuela Diaz-Madronero 2014 Springer

Optimal Control and Optimization of Stochastic Supply Chain Systems, Dong-Ping Song

Optimal Design and Related Areas in Optimization and Statistics, Luc Pronzato, Anatoly Zhigljavsky eds 2010 Springer

Optimal Stochastic Control, Stochastic Target Problems, and Backward SDE, Nizar Touzi Springer

Optimization and Logistics Challenges in the Enterprise, Wanpracha Chaovalitwongse, Kevin C Furma, Panos M Pardalos eds 2009 Springer

Production Planning and Control for Semiconductor Wafer Fabrication Facilities, Lars Monch, John Fowler, Scott Mason eds 2013 Springer

Quality Management in Reverse Logistics, Yiannis Nikolaidis ed Springer

Quantitative Methods in Supply Chain Management, Models and Algorithms, Ioannis T Christou 2012 Springer

Recent Advances in System Reliability Signatures, Multi-State Systems and Statistical Inference, Anatoly Lisnianski, Ilia Frenkel

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Risk Analysis in Stochastic Supply Chains, Tsan-Ming Choi, Chun-Hung Chiu Springer

Simplicial Global Optimization, Remigijus Paulavicius, Julius Zilinskas 2014 Springer

Stopping Times and Directed Processes, G A Edgar, Louis Sucheston 1992 Cambridge

Supply Chain Engineering, Marc Goetschalckx 2011 Springer

Variable Ordering Structures in Vector Optimization, Gabriele Eichfelder 2014 Springer

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Achieving sharp deliveries in supply chains through variance pool allocation, D Garg, Y Narahari, N Viswanadham in Eur J Oper Res 2006 India Singapore

An adaptive information fusion model to predict the short-term link travel time distribution in dynamic traffic networks, Lili Du, Srinivas Peeta, Yong Hoon Kim in Transp Res Part B 2012 PurdueU

Adaptive convex enveloping for multivariate convex dynamic programming, Sheng Yu dissertation 2012 George WashingtonU

An ADM-based splitting method for separable convex programming, Deren Han, Xiaoming Yuan, Wenxing Zhang, Xingju Cai in Comput Optim Appl 2013 China

Advances in optimization and design of supply chains, Chi Kin Chan, Shui Hung Hou, Andre Langevin in Int J Prod Econ 2012 China Canada

Ambulance location and relocation problems with time-dependent travel times, Verena Schmid, Karl Doerner in Eur J Oper Res 2010 Austria

An ant colony algorithm hybridized with insertion heuristics for the time dependent vehicle routing problem with time windows, S R Balseiro, I Loiseau, J Ramonet in Comput+Oper Res 2011 ColumbiaU Argentina

Ant colony optimisation algorithm for distribution-allocation problem in a two-stage supply chain with a fixed transportation charge, Vinay Panicker, Ratnaji Vanga, R Sridharan in Intl J Production Res 2013 India

Application of fuzzy optimization to a supply chain network design, a case study of an edible vegetable oils manufacturer, Turan Paksoy, Nimet Yapici Pehlivan, Eren Ozceylan in Appl Math Modelling 2012 Turkey

Applications of the vehicle routing problem with trailers and transshipments, Michael Drexl in Eur J Oper Res 2013 Germany

An approach for solving a fuzzy multiobjective programming problem, M K Luhandjula, M J Rangoaga in Eur J Oper Res 2014 South Africa

Approximate controllability of differential inclusions in hilbert spaces, Krzysztof Rykaczewski in Nonlinear Analysis 2012 Poland

Bargaining in competing supply chains with uncertainty, Desheng Wu, Opher Baron, Oded Berman in Eur J Oper Res 2009 Canada

A bayesian dynamic linear model approach for real-time short-term freeway travel time prediction, Xiang Fei, Chung-Cheng Lu, Ke Liu in Transp Res Part C 2011 China Taiwan

BDD-based heuristics for binary optimization, David Bergman, Andre A Cire, Willem-Jan van Hoeve, Tallys Yunes in J Heuristics 2014 CarnegieMellon UMiami

Benchmarking the interactions among barriers in third-party logistics implementation, an ISM approach, Ali Diabat, Abdallah Khreishah, Govindan Kannan, Vinay Panikar, Angappa Gunasekaran in Interactions among barriers in TPL 2012

A bi-level programming for logistics network design with system-optimized flows, Suh-Wen Chiou in Info Sci 2009 Taiwan

A branch and cut algorithm for the location-routing problem with simultaneous pickup and delivery, Ismail Karaoglan, Fulya Altiparmak, Imdat Kara, Berna Dengiz in Eur J Oper Res 2011 Turkey

A branch-price-and-cut method for a ship routing and scheduling problem with split loads, Magnus Stalhane, Henrik Andersson, Marielle Christiansen, Jean-Francois Cordeau, Guy Desaulniers in Comput+Oper Res 2012 Norway Canada

Bundling decisions in supply chains, A Chakravarty, A Mild, A Taudes in Eur J Oper Res 2013 NortheasternU Austria

Cargo ships routing and scheduling, survey of models and problems, David Ronen in Eur J Oper Res 1983 UMissouri

Challenges in managing empty container movements at multiple planning levels, Kris Braekers, Gerrit Janssens, An Caris in Transport reviews, a transnational transdisciplinary J 2011 Belgium

A class of random fuzzy programming and its application to supply chain design, Jiuping Xu, Yanan He, Mistsuo Gen in comput+indust engr 2009 China Japan

A class of stochastic optimal control proglems in hilbert spaces, BSDEs and optimal control laws, state constraints, conditioned processes, Marco Fuhrman in stochastic processes and their applications 2003 Italy

Collaborative production planning of supply chain under price and demand uncertainty, Guoquan Zhang, Jennifer Shang, Wenli Li in Eur J Oper Res 2011 China UPittsburgh

Combined ship allocation, routing and freight assignment in tramp shipping, Dung-Ying Lin, Hui-Yen Liu in Transp Res Part E 2011

Taiwan

Combining linear programming and automated planning to solve intermodal transportation problems, Javier Garcia, Jose Florez, Alvaro Torralba, Daniel Borrajo, Carlos Linares Lopez, Angel Garcia-Olaya, Juan Saenz in Eur J Oper Res 2013 Spain

Competent genetic algorithms for weighing matrices, I S Kotsireas, C Koukouvinos, P M Pardalos, D E Simos in J Comb Optim 2012

Concentrated ownership and corporate performance revisited, the case of shipping, Mike G Tsionas, Andreas G Merikas, Anna A Merika in Transp Res Part E 2012 Greece

Continuum modeling of supply chain networks using discontinouus Galerkin methods, Shuyu Sun, Ming Dong in Comput meth in appl mech+engr 2008 ClemsonU China

Controllability of General Nonlinear Systems, L R Hunt in mathematical systems theory 1979

Convergence of a general iterative method for nonexpansive mappings in hilbert spaces, Yeol Je Cho, Xiaolong Qin in J Comput+Appl Math 2009 Rep Korea

Coordinating orders in a two echelon supply chain with controllable lead time and ordering cost using the credit period, Ali Arkan, Seyed Reza Hejazi in Comput+Indust Engr 2012 Iran

The coordinating contracts for a fuzzy supply chain with effort and price dependent demand, Jing Zhao, Jie Wei in Appl Math Model 2013 China

Coordinating the supply chain in the agricultural seed industry, Samuel Burer, Philip Jones, Timothy Lowe in Eur J Oper Res 2008 UIowa

Coordination in a two-stage capacitated supply chain with multiple suppliers, Peral Toktas-Palut, Fusun Ulengin in Eur J Oper Res 2011 Turkey

Cost allocation model for optimizing supply chain inventory with controllable lead time, Fei Ye, Xuejun Xu in comput+indust engr 2010 China

Cost-based pricing model with value-added tax and corporate income tax for a supply chain network, Yan Zhang, J H Huang in Appl Math Modelling 2014 China

Cyclic-order neighborhoods with application to the vehicle routing problem with stochastic demand, Justin Goodson, Jeffrey Ohlmann, Barrett Thomsas in Eur J Oper Res 2012 StLouisU UIowa

D-optimal designs for logistic models with three and four parameters, Gang Li, Dibyen Majumdar in j of stat planning+inference 2008 GlaxoSmithKline UIllinois

A decision support methodology for strategic planning in maritime transportation, Kjetil Fagerholt, Marielle Christansen, Lars

Magnus Hvattum, Trong A V Johnsen, Thor J Vabo in Omega 2010 Norway

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A DES approach for the contextual load modelling of supply chain system for instability analysis, Nordin Saad, Visakan Kadirkamanathan in Sim Mod Pract+Theor 2006 Malaysia UK

Design of vehicle routing zones for large-scale distribution systems, Yanfeng Ouyang in Transp Res Part B 2007 UIllinois

Designing a distribution network in a supply chain system, formulation and efficient solution procedure, Ali Amiri in Eur J Oper Res 2006 OklahomaStateU

Designing container shipping network under changing demand and freight rates, Chao Chen, Qingcheng Zeng in Transport 2010 China

Deterministic approach to the fairest revenue-sharing coefficient in logistics service supply chain under the stochastic demand condition, Wei-hua Liu, Xue-cai Xu, Ahmad Kouhpaenejad in comput+indust engr 2013 China UNevadaLasVegas

Developing an input-output activity matrix (IOAM) for environmental and economic analysis of manufacturing systems and logistics chains, Maurice Bonney, Mohamad Jaber in Int J Prod Econ

2013 UK Canada

A direct solution approach to fuzzy mathematical programs with fuzzy decision variables, Adil Baykasoglu, Tolunay Gocken in Expert Sys+Appl 2012 Turkey

Discrete approximations, relaxation, and optimization of one-sided Lipschitzian differential inclusions in hilbert spaces, Tzanko Donchev, Elza Farkhi, Boris Mordukhovich in J Differential Equations 2007 Bulgaria Israel Detroit

A distributed parallel genetic algorithm for solving optimal growth models, Paul Beaumont, Patrick Bradshaw in Comput Econ 1995 FSU

Distributionally robust mixed integer linear programs, persistency models with applications, Xiaobo Li, Karthik Natarajan, Chung-Piaw Teo, Zhichao Zheng in Eur J Oper Res 2014 Singapore

A double smoothing technique for solving unconstrained nondifferentiable convex optimization problems, Radu Ioan Bot, Christopher Hendrich in Comput Optim Appl 2013 Germany

Dynamic and stochastic shortest path in transportation networks with two components of travel time uncertainty, Parichart Pattanamekar, Dongjoo Park, Laurene Rilett, Jeomho Lee, Choulki Lee in Transp Res Part C 2003 Thailand SouthKorea TexasA&M

Dynamics of global supply chain supernetworks, A Nagurney, J Cruz, D Matsypura in math+comput modelling 2003 UMassAmherst

e-Work based collaborative optimization approach for strategic logistic network design problem, Pablo Miranda, Rodrigo Garrido, Jose Ceroni in Comput+Indust Engr 2009 Chile

Effective heuristics for multiproduct partial shipment models, Milind Dawande, Srinagesh Gavirneni, Sridhar Tayur in Oper Res 2006 UTexasDallas Cornell CarnegieMellon

Effective location models for sorting recyclables in public management, Eli Angela Toso, Douglas Alem in Eur J Oper Res 2014 Brazil

Efficiency of transportation on weighted extended koch networks, Zikai Wu, Baoyu Hou, Hongjuan Zhang in Eur Phys J B 2013 China

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Crystal Growth of Si for Solar Cells, Kazuo Nakajima, Noritaka Usami eds 2009 Springer

Handbook of the Physics of Thin Film Solar Cells, Karl W Boer 2013 Springer

Harnessing Solar Heat, Brian Norton 2014 Springer

High-efficiency solar cells, physics, materials, and devices, Xiaodong Wang, Zhiming M Wang eds 2014 Springer

Inorganic Metal Oxide Nanocrystal Photocatalysts for Solar Fuel Generation from Water, Troy K Townsend 2014 Springer Theses

Next Generation of Photovoltaics, New Concepts, Ana Belen Cristobal Lopez, Antonio Marti Vega, Antonio Luque Lopez eds 2012 Springer

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Quantum Dot Solar Cells, Jiang Wu, Zhiming M Wang eds 2014 Springer

Rectenna Solar Cells, Garret Moddel, Sachit Grover eds 2014 Springer

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Terawatt Solar Photovoltaics, Roadblocks and Opportunities, Meng Tao 2014 Springer

Three Dimensional Solar Cells Based on Optical Confinement Geometries, Yuan Li 2013 Springer Theses

Tracking Solar Concentrators, A Low Budget Solution, Zafrullah Jagoo 2013 Springer

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Parameter estimation of solar cells and modules using an improved adaptive differential evolution algorithm, Lian Lian Jiang, Douglas L Maskell, Jadgish C Patra in Applied Energy 2013 Singapore Australia

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BOSTONCOLLEGE Cohomological invariants of quadratic forms, Ebony Ann Harvey Masters thesis 2010

CALTECH A geometric analysis of convex demixing, Michael McCoy thesis 2013

CARLETON The representation theory of the incidence algebra of an inverse semigroup, Bridget Helen Brimacombe Thesis 2011

COLUMBIA Functional Ito calculus and Applications ,David-Antoine Fournie dissertation 2010

COLUMBIA Representations and combinatorics of ocneanu's essential paths, Eric Simring dissertation 2009

CUNY Holomorphic Motions and Extremal Annuli, Zhe Wang dissertation 2013

CUNY Resplendent models generated by indiscernibles, Whanki Lee dissertation 2013

DUKE Applications of persistent homology to time varying systems, Elizabeth Much dissertation 2013

EMORY Zero cycles of degree one on principal homogeneous spaces, Jodi Black dissertation 2011

FSU Exotic smoothness, branched covering spaces, and quantum gravity, Christopher Levi Duston dissertation 2013

GEORGEMACON Extremal combinatorics in geometry and graph theory, Jonathan Beagley dissertation 2013

HARVARD Galois representations associated to holomorphic limits, Whushi Goldring dissertation 2011

HARVARD Methods for quantifying rates of convergence for random walks on groups, Frances Edward Su thesis 1995

IOWASTATE Coloring and extremal problems in combinatorics, Jacob Manske dissertation 2010

LSU Explicit multiplicative relations between gauss sums, Brian J Murray dissertation 2010

MCGILL Forms of smooth projective varieties and their zeta functions, Yu Zhao thesis 2006

NORTHEASTERN Constructions of k-orbit abstract polytopes, Ilanit Helfand dissertation 2013

NORTHWESTERN A functor from lagrangian cobordisms to the fukaya category, Hiro Lee Tanaka dissertation 2013

NORTHWESTERN Higher laminations and affine buildings, Ian Le dissertation 2013

PRINCETON Fibrations in abelian varieties associated to enriques surfaces, Giulia Sacca dissertation 2013

PRINCETON Finite-sheeted covering spaces and solenoids over 3-manifolds, Will Cavendish dissertation 2012

PRINCETON On congruences between modular forms, Richard Lawrence Taylor thesis 1988

QUEENS Topics in combinatorics and random matrix theory, Jonathan Novak dissertation 2009

SANJOSE Galois Theory and the Hilbert Irreducibility Theorem, Damien Adams dissertation 2013

STANFORD An extensive survey of graceful trees, Elina Robeva undergraduate thesis 2011

STANFORD Cobordism categories, corners, and surgery, Josh Genauer dissertation 2009

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STANFORD Formal Proofs and Refutations, Jesse Alma dissertation 2009

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STANFORD Higher symplectic field theory invariants for cotangent bundles of surfaces, Eric Schoenfeld dissertation 2009

STANFORD Holomorphic curves in lagrangian torus fibrations, Brett Parker dissertation 2005

STANFORD Multi-scale methods in time and space for particle simulations, William Fong dissertation 2009

STANFORD Nonuniqueness of constant scalar curvature metrics in a conformal class, Zachary Cohn dissertation 2009

STANFORD Rigidity of tangent cones and the singular set of minimal hypersurfaces, Neshan Wickramasekera dissertation 2002

STANFORD Statistical properties of deterministic bernoulli, flows Amy Elizabeth Radunskaya dissertation 1992

STANFORD The foliated morse inequalities, Davide Castelvecchi dissertation 2000

STANFORD The partition function and modular forms, Justin Hsu undergrad thesis 2011

STANFORD Topics in dissipative evolution equations, Tony Shardlow dissertation 1997

SUNYBINGHAMTON Duality of higher order non-euclidean property for oriented matroids ,Leandro Junes dissertation 2008

SUNYBUFFALO The Uniform Box Product Problem, Jocelyn Bell dissertation 2010

TEMPLE Representations of polytopes, Michael Gene Dobbins dissertation 2011

TULANE Shellability of the bruhat order on borel orbit closures, Tim Twelbeck dissertation 2013

UARIZONA Lieb-Robinson bounds for the toda lattice, Umar Islambekov dissertation 2013

UARIZONA Nonexistence of rational points on certain varieties, Dong Quan Ngoc Nguyen dissertation 2012

UCALGARY Posets and games, Kevin Saff thesis 2007

UCBERKELEY Algebraic combinatorics for computational biology, Nicholas Karl Eriksson dissertation 2006

UCBERKELEY Del pezzo surfaces and the brauer-manin obstructio,n Patrick Kenneth Corn dissertation 2005

UCBERKELEY Selmer groups, component groups and heegner points ,Dimitar Petkov Jetchev dissertation 2008

UCBERKELEY Toric Stacks, Anton Igorevich Geraschenko dissertation 2011 UCBerkeley

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Felipe Rincon dissertation 2012

UCDAVIS Efficient Numerical Integration Schemes in the Partition-of-Unity Finite Element Method, Seyed Ebrahim Mousavi Eshkiki dissertation 2011

UCDAVIS Topological Methods in Matroid Theory, Matthew Terrence Stamps dissertation 2011

UCDENVER Homology representaitons arising from a hypersimplex, Jacob Tyler Harper thesis 2005

$\mathfrak{UCF}$ *Almost regular graphs and edge-face colorings of plane graphs*, Lisa Fischer Macon thesis 2009

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$\mathfrak{UCF}$ *Efficient cone beam reconstruction for the distorted circle and line trajectory*, Souleymane Konate dissertation 2009

$\mathfrak{UCF}$ *Optimal dual frames for erasures and discrete gabor frames*, Jerry Lopez dissertation 2009

$\mathfrak{UCF}$ *The sheffer B-type 1 orthogonal polynomial sequences*, Daniel Joseph Galiffa dissertation 2009

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UCHICAGO Contributions to the model theory of differential fields, Eric Rosen dissertation 2005

UCHICAGO Singularities of Configuration and Graph Hypersurfaces, Eric Patterson dissertation 2009

UCHICAGO Topological classification of some multiaxial actions on spheres and products, Jared Alexander Bass dissertation 2013

UCIRVINE On the Invariance Principle and Central Limit Theorems for Stochastic Flows, dissertation William Pachas-Flores 2013

UCIRVINE Tangent Space of Chow Varieties, Jeremy Jankans dissertation 2013

UCOLORADO Finite-time transport in aperiodic dynamical systems, Brock Mosovsky thesis 2013

UCOLORADO Some properties of full heaps, Zachary Strider McGregor-Dorsey dissertation 2013

UCONNECTICUT Group gradings of incidence algebras, Molli Jones dissertation 2003

UCSANDIEGO Counting patterns in permutations and words, Jeffrey Edward Liese dissertation 2008

UCSANDIEGO Diffusion and Clustering on Large Graphs, Alexan-

der Tsiatas dissertation 2012

UCSANDIEGO Hypergraph independence numbers, Alexander Eustis dissertation 2013

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UCSANDIEGO Pattern matching in column-strict fillings of rectangular arrays, Johannes Andreas Harmse dissertation 2011

UCSANDIEGO Random Graphs with Attribute, Affinity Mary Radcliffe dissertation 2012

UCSANDIEGO Transversal CR Mappings, Andre Minor dissertation 2011

UF Properties of groups at infinity, Athanasios Gentimis dissertation 2011

UF Semi-conjugacies to tent maps, transitivity and patterns, and inverse limit spaces, Dennis Joel Ledis dissertation 2011

UIOWA On Commutativity of Unbounded Operators in Hilbert Space, Feng Tian dissertation 2011

UMICHIGAN Homology of the lie algebra corresponding to a poset, Iztok Hozo dissertation 1993

UMINNESOTA Poset and polytope perspectives on alternating

sign matrices, Jessica Palencia Striker dissertation 2008

UMINNESOTA Structural aspects of differential posets, Patrick Byrnes dissertation 2012

UNC Dimensions of compact invariant sets of some expanding maps, Yuki Yayama dissertation 2007

UNEBRASKA The weak discrepancy and linear extension diameter of grids and other posets, Katie Johnson dissertation 2012

UNEVADA Cantor minimal systems and dimension groups, Cyrus Anthony Luciano thesis 2013

UNMALBUQUERQUE Arithmetic jet spaces and modular forms, Arnab Saha dissertation 2012

UOK Geodesic fibrations of elliptic 3-manifolds, Cherith Tucker dissertation 2013

UPENN Cohomological invariants of line bundle-valued symmetric bilinear forms, Asher Auel dissertation 2009

URHODEISLAND Hypergraph colorings, commutative algebra, and grobner bases, Michael Krul dissertation 2013

USF Boolean Partition Algebras, Joseph Van Name dissertation 2013

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order, Kelly Kross Jordan submission 2008

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Almost normal heegaard splittings, Saul David Schleimer dissertation 2001 UCBerkeley

Appplied Geometry for Computer Graphics and CAD, Duncan Marsh 2004 Springer

Basic Algebraic Geometry 1, Varieties in Projective Space, Igor R Shafarevich 2013 Springer

Basic Elements of Differential Geometry and Topology, S P Novikov, A T Fomenko 1990 Kluwer

The Beltrami Equation, A Geometric Approach, Vladimir Gutlyanskii, Vladimir Ryazanov, Uri Srebro, Eduard Yakubov 2012 Springer

Cellular structures in topology, R Fritsch, R A Piccinini 1990 Cambridge

Characterizing k-dimensional universal menger compacta, Mladen Bestvina dissertation 1984 UTennessee

A Comprehensive Introduction to Differential Geometry, Michael Spivak 1999 Publish or Perish

A Comprehensive Introduction to Differential Geometry vol 2, Michael Spivak 1999 Publish or Perish

A Comprehensive Introduction to Differential Geometry vol 3, Michael Spivak 1999 Publish or Perish

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Computing the Continuous Discretely, Integer-Point Enumeration in Polyhedra, Mathias Beck, Sinai Robins 2007 Springer

A Concise Course in Algebraic Topology, J P May UChicago www.math.uchicago.edu/ may

Counterexamples in Topology, Lynn A Steen, J Arthur Seebach 1970 Holt, Rinehart and Winston

A course on convex geometry, Wolfgang Weil 2005 www.math.kit.edu/ iag4/ lehre/ konvgeo2009w/ media/ cg.pdf Karlsruhe in Germany

Critical Point Theory for Lagrangian Systems, Marco Mazzucchelli 2012 Springer

Cusp shapes of hyperbolic link complements and dehn filling, Jessica Purcell dissertation 2004 Stanford

Differential Forms and Applications, Manfredo P Do Carmo 1994 Springer

Discrete differential geometry, Alexander Bobenko, Peter Schroder, John Sullivan, Gunter Ziegler eds 2008 Birkhauser

Elementary Differential Geometry, Andrew Pressley 2010 Springer

Elliptic Structures on 3-manifolds, Charles Benedict Thomas 1986 Cambridge

Encyclopedia of Distances, Michel Marie Deza, Elena Deza 2013 Springer

First Steps in Differential Geometry, Riemannian, Contact, Symplectic, Andrew McInerney 2013 Springer

Fixed Point Theory for Lipschitzian-type Mappings with Applications, Ravi P Agarwal, Donal O'Regan, D R Sahu 2009 Springer

Fixed-Point Algorithms for Inverse Problems in Science and Engineering, Bauschke, Burachik, Combettes, Elser, Luke, Wolkowicz eds 2011 Springer

Foliations and Geometric Structures, Aurel Bejancu, Hani Reda Ferran 2006 Springer

Frames and Locales, Topology without Points, Jorge Picado, Ales Pultr 2012 Springer

From a Geometrical Point of View, A Study of the History and Philosophy of Category Theory, Jean-Pierre Marquis 2009 Springer

Frontiers in Number Theory, Physics, and Geometry II, On Conformal Field Theories, Discrete Groups and Renormalization, Pierre Cartier, Bernard Julia, Pierre Moussa, Pierre Vanhove eds 2007 Springer

Generalized Curvatures, Jean-Marie Morvan 2008 Springer

Geodesic and horocyclic trajectories, Francoise Dal'Bo 2011 Springer

A Geometric Approach to Differential Forms, David Bachman 2012 Birkhauser

Geometric Aspects of General Topology, Katsuro Sakai 2013 Springer

Geometric Function Theory in One and Higher Dimensions, Ian Graham, Gabriela Kohr 2003 Dekker

Geometric invariants for 3-manifolds, Robert Meyerhoff in The Mathematical Intelligencer 1992 BostonU

Geometry and Dynamics of Groups and Spaces, Mikhail Kapranov, Segiy Kolyada, Yuri I Manin, Pieter Moree, Leonid Potyagailo eds 2008 Birkhauser

Geometry and Symmetry, Paul B Yale 1968 Holden-Day

Geometry, Michele Audin 2002 Springer

Geometry of Algebraic Curves Volume II, Enrico Arbarello, Maurizio Cornalba, Phillip A Griffiths 2011 Springer

Geometry of Continued Fractions, Oleg Karpenkov 2013 Springer

Geometry Revealed, A Jacob's Ladder to modern higher geometry, Marcel Berger 2010 Springer

Gradient Flows, in metric spaces and in the space of probability measures, Luigi Ambrosio, Nicola Gigli, Giuseppe Savare 2005 Birkhauser

Guts of surfaces and the colored jones polynomial, David Futer, Efstratia Kalfagianni, Jessica Purcell 2013 Springer

Handbook of Differential Geometry, Volume II, F J E Dillenn, L C A Verstraelen eds 2006 Elsevier

Handbook of Geometric Topology, R J Daverman, R B Sher 2002 Elsevier

Handbook of Topological Fixed Point Theory, R F Brown, M Furi, L Gorniewicz, B Jiang 2005 Springer

A History of Algebraic and Differential Topology 1900-1960, Jean Dieudonne 1989 Birkhauser

Inequalities for Differential Forms, Ravi Agarwal, Shusen Ding, Craig Nolder 2009 Springer

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An Introduction to Symplectic Geometry, Rolf Berndt 2000 AMS

An Introduction to Teichmuller Spaces, Y Imayoshi, M Taniguchi 1992 Springer

Introduction to Contact Topology, Hansjorg Geiges 2008 Cambridge

Introduction to Homotopy Theory, Martin Arkowitz 2011 Springer

Introduction to Manifolds, Loring W Tu 2008 Springer

Introduction to Topological Manifolds, John M Lee 2000 Springer

Iterative Approximation of Fixed Points, Vasile Berinde 2007 Springer

Metric and Differential Geometry, Xianzhe Dai, Xiaochun Rong eds 2012 Birkhauser

Minimax Systems and Critical Point Theory, Martin Schechter 2009 Birkhauser

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metic Meets Geometry and Physics [Aspects of mathematics, Max-Planck-Institute for Math, Bonn], Caterina Consani, Matilde Marcolli eds 2006 Vieweg (Springer)

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Open Problems in Topology, Jan Van Mill, George M Reed 1990 North Holland

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Plane and Solid Geometry, J M Arts 2008 Springer

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Points and Line, Characterizing the Classical Geometries, Ernest E Shult 2011 Springer

Poisson Point Processes, Imaging, Tracking, and Sensing, Roy L Streit 2010 Springer

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Modern Topology, Part I, Dale M Johnson in Archive for History of Exact Sciences 1979 UK

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Singularities of Differentiable Maps, Vol 1, Classification of Critical Points, Caustics and Wave Fronts, V I Arnold, S M Gusein-Zade, A N Varchenko 2012 1985 Birkhauser

Surface Evolution Equations, A Level Set Approach, Yoshikazu Giga 2006 Birkhauser

Symmetry, Representations, and Invariants, Roe Goodman, Nolan R Wallach 2009 Springer

Topological Complexity of Smooth Random Functions, Ecole d Ete de Probabilites de Saint-Flour 2009, Robert J Adler, Jonathan E Taylor 2011 Springer

Topological Degree Approach to Bifurcation Problems, Michal Feckan

2008 Springer

Topological Fixed Point Theory of Multivalued Mappings, Lech Gorniewicz 2006 Springer

Topological Groups and Related Structures, Alexander Arhangel'skii, Mikhail Tkachenko 2008 Atlantis World Scientific

Topology and Geometry, Glen E Bredon 1993 Springer

Topology, James R Munkres 2000 Prentice-Hall

Topology, Geometry and Gauge Fields, Foundations, Gregory L Naber 2011 Springer

Wild low-dimensional topology and dynamics, Mark Hansen Meilstrup dissertation 2010 BrighamYoungU

62.2 Topology and Geometry, Papers and Shorter Works

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Discrete and continuous invariance in phyllotactic tilings, Patrick D Shipman in Physical Review 2010 ColoradoState

Invariant measures for non-primitive tilling substitutions, M I Cortez, B Solomyak in J d'Analyse Math 2011 Chile UWash

A note on space tiling zonotopes, Frank Vallentin in arXiv 2004 Israel

Spherical f-tilings by scalene triangles and isosceles trapezoids II, Catarina Avelino, Altino Santos in Acta Math Sinica 2012 Vila Real in Portugal

Tiling the plane without supersymmetry, D Bazeia, F A Brito in Physical Review 2000 Brazil

Tilings of quadriculated annuli, Nicolau C Saldanha, Carlos Tomei in arXiv 2013 Rio de Janeiro in Brazil

Tilings, packings, coverings, and the approximation of functions, Aicke Hinrichs, Christian Richter in Math Nachr 2004 Jena in Germany, France

62.2.2 Various Topology and Geometry

An application of homotopy theory to mapping class groups, Ruth Charney, Ronnie Lee in J of Pure+Appl Algebra 1987 Ohio Yale

Area laws in a many-body localized state and its implications for topological order, Bela Bauer, Chetan Nayak in arXiv 2013 UC-SantaBarbara

An asymptotic formula for the eta invariants of hyperbolic 3-manifolds, Robert Meyerhoff, Walter Neumann in Comment Math Helvetici 1992 Ohio State BostonU

Automorphic forms and rational homology 3-spheres, Frank Cale-

gari, Nathan Dunfield in Geom+Topology 2006 Harvard, Caltech

Basic topology Chapter 01 Anatole Katok www.personal.psu.edu/axk29

Berezin integration on general fermionic supermanifolds Jeffrey Rabin in Commun Math Phys 1986 UChicago

Boundary manifolds of line arrangements, Eriko Hironaka in Mathematische Annalen 2001 FSU

Boundary slopes and the logarithmic limit set, Stephan Tillmann in Topology 2005 Canada

Branched coverings over manifolds, I V Savel'ev in J Math Sci 2004 Russia

Chain recurrence rates and topological entropy, David Richeson, Jim Wiseman in Topology+its Appl 2008 Dickinson AgnesScott

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Combinatorial and geometric methods in topology, Carlo Petronio, Damian Heard, Ekaterina Pervova in Milan J Math 2008 Italy Australia

Continuous families of rational surface automorphisms with positive entropy, Eric Bedford, Kyounghee Kim in Math Ann 2010 IndianaU FSU

Continuous solutions for fractional integral inclusion in locally convex topological space, Rabha W Ibrahim in Appl Math J Chinese Univ 2009

Conway spheres as ideal points of the character variety, Luisa Paoluzzi, Joan Porti in Mathematische Annalen 2012 France, Bellaterra in Barcelona in Spain

Covering dimension of topological products, K L Kozlov, B A Pasynkov in J Math Sci 2007 Moscow in Russia

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Elementary Topology, Math 167 Lecture Notes, Stefan Waner HofstraU

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Floer cohomology and pencils of quadrics, Ivan Smith in Inventiones mathematicae 2012 UK

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Heegaard floer invariants and cabling, Jennifer Hom dissertation

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Hereditary coreflective subcategories of the categories of tychonoff and zero-dimensional spaces, Juraj Cincura in Appl Categor Struct 2012 Bratislava in Slovakia

Hermitian harmonic maps from complete hermitian manifolds to complete riemannian manifolds, Lei Ni in Mathematische Zeitschrift 1999 PurdueU

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On boundary behavior of generalized quasi-isometries, Denis Kovtonyuk, Vladimir Ryazanov in J d'Analyse Math 2011 Donetsk in Ukraine

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On fibrations with formal elliptic fibers, Manuel Amann, Vitali Kapovitch in Adv in Math 2012 Canada

On heegaard decompositions of torus knot exteriors and related seifert fibre spaces, Michel Boileau, Markus Rost, Heiner Zieschang in Mathematische Annalen 1988 France, Regensburg and Bochum in Germany

On surfaces with a rectilinear geodesic circle, Adriano Garsia in Annali di Matematica 1958 Stanford

On the geometry of p-typical covers in characteristic p, Kiran Kedlaya in arXiv 2006 MIT

On the topology, combinatorics and geometry of circle and spherical orders, Catherine Lynn Crockett dissertation 2006 UCRiverside

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One sided branching in anosov foliations, Sergio Fenley in Comment Math Helvetici 1995 UCBerkeley

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The π-orbifold group of a link, Michel Boileau, Bruno Zimmermann in Mathematische Zeitschrift 1989 France Germany

The picard sequence of a fibration, Andy R Magid chapter in Brauer Groups 1976 Springer

Polynomial periodicity for betti numbers of covering surfaces, Eriko Hironaka in Invent math 1992 Stanford

Promoting essential laminations, Danny Calegari in Inventiones mathematicae 2006 Caltech

Pseudo-anosov flows and incompressible tori, Sergio Fenley in Geometriae Dedicata 2003 FSU

Pseudo-anosov homeomorphisms on translation surfaces in hyperelliptic components have large entropy, Corentin Boissy, Erwan Lanneau in Geom Funct Anal 2012 France

Real structures of teichmuller spaces, dehn twists, and moduli spaces of real curves, Peter Buser, Mika Seppala in Mathematische Zeitschrift 1999 Switzerland FSU

Regularity of hypersurfaces in $\mathbb{R}^{n+1}$ moving by mean curvature flow, Christos A Mantoulidis 2011 Stanford

Ridgelets, a key to higher-dimensional intermittency?, Emmanuel J Candes, David L Donoho 1999 Stanford

Right inverses of linear maps on convex sets, L F Midolo, G De Marco in Topology+its Appl 2009 Padova in Italy

Right topological groups, distal flows, and a fixed-point theorem, I Namioka in Mathematical systems theory 1972 UWashington

Seiberg-witten and casson-walker invariants for rational homology 3-spheres, Matilde Marcolli, Bai-Ling Wang in Geometriae Dedicata 2002 Bonn in Germany, Australia

Small 3-manifolds of large genus, Ian Agol in Geometriae Dedicata 2003 UIllinois

Stabilizing fake hilbert spaces, Mladen Bestvina in Topology+its Appl 1987 UCLA

Strict Hyperbolization, Ruth Charney, Michael Davis in Topology 1995 OhioStateU

Strong G-fibrations and orbit projections, Alexander Bykov, Aura Lucina Kantun Montiel in Topology+its Appl Article In Press 2014 Mexico

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Surface maps into free groups, Alden Walker dissertation 2012 Caltech

Surfaces of constant curvature in $\mathbb{R}^3$ *with isolated singularities*, Jose Galvez, Laurent Hauswirth, Pablo Mira in Adv in Math 2013 Spain France

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Tameness of hyperbolic 3-manifolds, Ian Agol in arXiv 2004 UIllinois

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